



COUNTY OF ERIE

DIVISION OF PURCHASE INVITATION TO BID

Bids, as stated below, will be received and publicly opened by the Division of Purchase in accordance with the attached specifications. FAX bids are unacceptable. Bids must be submitted in a sealed envelope to:

County of Erie
Division of Purchase
Attention: JAMES D. KUCEWICZ, BUYER (716) 858-6336
95 Franklin Street, Room 1254
Buffalo, New York 14202-3967

NOTE: Lower left hand corner of envelope **MUST** indicate the following:

BID NUMBER: A250225-002

OPENING DATE: February 2, 2026 TIME: 11:00 am

FOR : ECSD Nos. 2, 4, & 6 Cathodic Protection Systems – Inspection, Repair, and Stray Current Testing

NAME OF BIDDER: _____

If you are submitting other Invitations to Bid, each bid must be enclosed in a separate envelope.

Following EXHIBITS are attached to and made a part of the bid specifications, and part of any agreement entered into pursuant to this Invitation to Bid:

<u>X</u>	EXHIBIT "A"	- Assignment of Public Contracts
<u>X</u>	EXHIBIT "B"	- Purchases by Other Local Governments or Special Districts
<u>X</u>	EXHIBIT "C"	- Construction/Reconstruction Contracts
<u>X</u>	EXHIBIT "D"	- 5% Bid Bond (Formal Bid)
<u>N/A</u>	EXHIBIT "E"	- Bid Bond (Informal Bid)
<u>X</u>	EXHIBIT "EP"	- Equal Pay Certification
<u>X</u>	EXHIBIT "F"	- Standard Agreement
<u>X</u>	EXHIBIT "G"	- Non-Collusive Bidding Certification
<u> </u>	EXHIBIT "H"	- MBE/ WBE Commitment
<u>X</u>	EXHIBIT "IC"	- Insurance Classification "C"
<u>X</u>	EXHIBIT "J"	- New York State Certified Worker Training Program Certification
<u>X</u>	EXHIBIT "L"	- Confined Space Certification & OSHA 10 Compliance Certification
<u>X</u>	EXHIBIT "P" & EXHIBIT "PBI"	- Performance Bond 100%
<u>X</u>	EXHIBIT "PW"	- NYS Prevailing Wage
<u>X</u>	EXHIBIT "V"	- Vendor Federal Compliance Certification
<u>N/A</u>	EXHIBIT "M"	- General Contract Conditions – Division 00 Specifications
<u>X</u>	EXHIBIT "N"	- Specific Contract Conditions – Division 01 Specifications
<u>X</u>	EXHIBIT "O"	- Technical Specifications

County of Erie

DIVISION OF PURCHASE

BID SPECIFICATIONS

BID NO A250225-002

Ship to: County of Erie
 Attention:
 Address:

Ship Via:

Date Required at Destination: ASAP

ITEM NO.	QUAN-TITY	U/M	CATALOG NO./DESCRIPTION	UNIT PRICE	TOTAL PRICE
--	--	--	In accordance with the Contract Drawings and Specifications:		
1	1	LS	Perform cathodic inspection services and submit a written report for the five pumping stations identified in the specifications in Erie County Sewer District No. 2. (Provide lump sum price for testing five locations in total price.)	NA	
2	1	LS	Perform cathodic inspection services and submit a written report for the three pumping stations identified in the specifications in Erie County Sewer District No. 4. (Provide lump sum price for testing three locations in total price.)	NA	
3	1	LS	Repair the cathodic protection system as noted in the specifications and perform cathodic inspection services and submit a written report for the Commerce Drive pumping station identified in the specifications in Erie County Sewer District No. 6. (Provide lump sum price for repairing and testing one location in total price.)	NA	
4	3	UNIT	Perform stray current interference testing at a minimum of three locations along the 18 Mile pumping station forcemain as noted in the specifications in Erie County Sewer District No. 2. (Provide unit price per test location and assume three locations for total price.)		
5	1	LS	Contingency for Erie County Sewer District No. 2	\$2,500	\$2,500
6	1	LS	Contingency for Erie County Sewer District No. 4	\$2,500	\$2,500
7	1	LS	Contingency for Erie County Sewer District No. 6	\$2,500	\$2,500

NOTE: Bid results cannot be given over the phone. All requests for bid results should be submitted in writing or faxed to:

ERIE COUNTY DIVISION OF PURCHASE
 Freedom of Information Officer
 95 Franklin Street, Rm. 1254
 Buffalo, NY 14202
 FAX #: **716/858-6465**

TOTAL NET BID DELIVERED INSIDE _____

NAME OF BIDDER _____

(Rev. 9/95)

ERIE COUNTY OFFICE BUILDING, 95 FRANKLIN STREET, BUFFALO, NEW YORK 14202 (716) 858-6395

County of Erie
DIVISION OF PURCHASE
NON-COLLUSIVE BIDDING CERTIFICATION

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his knowledge and belief:

(1) the prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or any competitor;

(2) unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and

(3) no attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

NOTICE

(Penal Law, Section 210.45)

IT IS A CRIME, PUNISHABLE AS A CLASS A MISDEMEANOR UNDER THE LAWS OF THE STATE OF NEW YORK, FOR A PERSON, IN AND BY A WRITTEN INSTRUMENT, TO KNOWINGLY MAKE A FALSE STATEMENT, OR TO MAKE A FALSE STATEMENT, OR TO MAKE A STATEMENT WHICH SUCH PERSON DOES NOT BELIEVE TO BE TRUE.

BID NOT ACCEPTABLE WITHOUT FOLLOWING CERTIFICATION:

Affirmed under penalty of perjury this _____ day of _____, 20 _____

TERMS _____ DELIVERY DATE AT DESTINATION _____

FIRM NAME _____

ADDRESS _____

ZIP _____

AUTHORIZED SIGNATURE _____

TYPED NAME OF AUTHORIZED SIGNATURE _____

TITLE _____ TELEPHONE NO. _____

(Rev. 1/2000)

ERIE COUNTY OFFICE BUILDING, 95 FRANKLIN STREET, BUFFALO, NEW YORK 14202 (716) 858-6395

County of Erie
DIVISION OF PURCHASE
INSTRUCTIONS TO BIDDERS (FORMAL)

1. BID SHALL BE SUBMITTED ON THESE COUNTY OF ERIE BID FORMS or bid will not be considered. Bid must be typed or printed in ink. Original autograph signatures in ink are required. Facsimile or rubber stamp signatures will not be accepted. ALL PAGES OF THIS BID DOCUMENT MUST BE RETURNED INTACT.

2. LATE PROPOSALS. Any bids received in the Erie County Division of Purchase after the date and time prescribed will not be considered for contract award.

3. EMERGENCY CLOSINGS. In the event the closing of certain County facilities and/or operations and/or services due to any flood, fire, fire drill, power failure, uncontrolled weather conditions or other cause beyond the Division of Purchase control, only bids received in the Division of Purchase prior to the date and time or postmarked as of the date prescribed will be considered for contract award.

4. ANY CHANGE IN WORDING OR INTERLINEATION BY A BIDDER OF THE INQUIRY AS PUBLISHED BY THE COUNTY OF ERIE shall be reason to reject the proposal of such bidder, or in the event that such change in the Invitation to Bid is not discovered prior to entering into a contract, to void any contract entered into pursuant to such bid.

5. THE COUNTY RESERVES THE RIGHT TO REJECT any and all bids, to accept either in whole or in part any one bid or combination of bids, as may be provided in the bid specifications, or to waive any informalities in bids. The County does not obligate itself to accept the lowest or any other proposal.

6. AWARD TO THE LOWEST RESPONSIBLE BIDDER. For the purpose of determining which bidder is the lowest qualified responsible bidder, it shall be the lowest three bidders' responsibility, within FIVE DAYS of being so notified by the Division of Purchase, to present information and documentation to the Division of Purchase, to satisfy the County that the bidder possesses sufficient capital resources, skill, judgment and experience to perform the work or deliver the material, as per bid specifications.

7. CONTRACT(S) OR PURCHASE ORDER(S) WILL BE AWARDED after due consideration of the suitability of goods and/or services bid to satisfy these specifications, the total cost of such goods and/or services including all cost elements, and the timeliness of the agreed upon delivery date.

8. This EXECUTORY CLAUSE shall be a part of any agreement entered into pursuant to this bid:

IT IS UNDERSTOOD BY THE PARTIES THAT THIS AGREEMENT SHALL BE EXECUTORY ONLY TO THE EXTENT OF THE MONIES AVAILABLE TO THE COUNTY OF ERIE AND APPROPRIATED THEREFOR, AND NO LIABILITY ON ACCOUNT THEREOF SHALL BE INCURRED BY THE COUNTY BEYOND THE MONIES AVAILABLE AND APPROPRIATED FOR THE PURPOSE THEREOF.

9. FAILURE TO MEET DELIVERY SCHEDULE as per accepted bid may result in legal action by the County of Erie to recover damages.

10. PRICES SHALL BE QUOTED F.O.B. DESTINATION AND DELIVERED INSIDE. "Tailgate delivery" will not be accepted unless specified by the County.

11. COLLECT TRANSPORTATION CHARGES WILL NOT BE PAID BY THE COUNTY. All freight, cartage, rigging, postage or other transportation charges shall be prepaid and included in the bid. There will be no additional charges for delivery.

12. NO TAXES ARE TO BE BILLED TO THE COUNTY. Bids shall not include any Federal, State, or local excise, sales, transportation, or other tax, unless Federal or State law specifically levies such tax on purchases made by a political subdivision. The County of Erie Purchase Order is an exemption certificate. Any applicable taxes from which the County is not exempt shall be listed separately as cost elements, and added into the total net bid.

13. THE SUCCESSFUL BIDDER shall comply with all laws, rules, regulations and ordinances of the Federal Government, the State of New York and any other political subdivision of regulatory body which may apply to its performance under this contract.

County of Erie

DIVISION OF PURCHASE

14. GRATUITIES, ILLEGAL OR IMPROPER SCHEMES. The County may terminate this agreement if it is determined that gratuities in the form of entertainment, gifts or otherwise were offered or given by a vendor, his agent or representative to any County official or employee with a view towards securing favorable treatment with respect to the awarding of this bid or the performance of this agreement. The County may also terminate this agreement if it is determined that the successful bidder engaged in any other illegal or improper scheme promotive of favoritism or unfairness incidental to the bidding process or the performance of this agreement. In the event that it is determined that said improper or illegal acts occurred, the County shall be entitled to terminate this agreement and/or exercise any other remedy available to it under existing law.

15. INSURANCE shall be procured by the Successful Bidder before commencing work, no later than 14 days after notice of award and maintained without interruption for the duration of the Contract, in the kinds and amounts specified in Exhibit IC, unless otherwise stipulated in these Bid Specifications. IF THE INSURANCE IS NOT PROVIDED IN ACCEPTABLE FORM WITHIN THIS PERIOD OF TIME, THEN THE DIRECTOR OF PURCHASE MAY DECLARE THE VENDOR NONRESPONSIVE AND AWARD THE CONTRACT TO THE NEXT LOW RESPONSIBLE BIDDER.

CERTIFICATES OF INSURANCE shall be furnished by the successful bidder on Erie County Standard Insurance Certificate, Exhibit IC.

16. ANY CASH DISCOUNT which is part of bid will be considered as a reduction in the bid prices in determining the award of the bid. Date of invoice must not precede date of delivery. The County policy is to pay all claims in a timely manner within the specified time. However, if for some reason payment is delayed, the County will take the discount when payment is made. The County will not pay any interest charges, nor refund discount amounts taken after the discount period. If this is unsatisfactory, please quote net.

17. CHANGES IN THE WORK. The County may, as the need arises, through the Director of Purchase, order changes in the work through additions, deletions, or modifications without invalidating the contract. Compensation, as it may be affected by any change, shall be adjusted by agreement between the contractor and County through the Director of Purchase.

18. BID OFFERING MATERIAL OTHER THAN THAT OF SPECIFIED MANUFACTURER OR TRADE NAME will be considered unless stated otherwise. The use of the name of a particular manufacturer, trade name, or brand in describing an item does not restrict a bidder to that manufacturer or specific article. However, the substituted article on which a proposal is submitted must be of such character or quality that it would serve the purpose for which it is to be used equally well as the manufacturer or brand specified. Proposals will be accepted in accordance with specifications on file or approved equal.

19. IF MATERIAL OR SERVICES OTHER THAN THOSE SPECIFIED IN THIS BID DOCUMENT ARE OFFERED, the bidder must so state and furnish at the time of bid opening, if so requested, and as part of his bid the following information in duplicate:

- (a) Complete description of the item offered, and detailed explanation of the differences between the item specified and the item offered. If, in the opinion of the Division of Purchase, sufficient detail is not presented as a part of the sealed bid to permit definitive evaluation of any substitute item, the bid will not be considered.
- (b) Descriptive literature of item offered, for evaluation.
- (c) List of installations in Erie County of the item offered.
- (d) List of other installations.

20. ANY ADDITIONAL INFORMATION for which bidder desires to add to the bid shall be written on a separate sheet of paper, attached to and submitted with the formal sealed bid, to be read at the formal opening.

21. WORKMANSHIP MUST MEET WITH THE APPROVAL OF THE DEPARTMENT HEAD(S) INVOLVED, AND SHALL BE FIRST CLASS in every respect without exception and shall be equal to the best modern practices. Materials furnished are to be new and unused. All materials furnished or work performed are to be guaranteed free from defects. Anything found defective or not meeting specifications, no matter in what stage of completion, may be rejected and shall be made good by the contractor at his own expense.

22. CONTRACTOR SHALL CLEAN UP and remove all debris and rubbish resulting from the work and leave the premises broom clean to the approval of the department head.

County of Erie

DIVISION OF PURCHASE

23. THIS BID IS FIRM AND IRREVOCABLE for a period of 45 days from the date and time of the bid opening. If a contract is not awarded within the 45 day period, a bidder to whom the bid has not been awarded, may withdraw his bid by serving written notice of his intention to do so upon the Division of Purchase. Upon withdrawal of the bid pursuant to this paragraph, the Division of Purchase will forthwith return the bidder's security deposit.

24. PRICES CHARGED TO THE COUNTY OF ERIE are to be no higher than those offered to any other governmental or commercial consumer. If a bidder has a New York State or a Federal GSA contract for any of the items covered in this bid or any similar items, he shall so indicate that he has said contract on these bid papers and automatically supply a copy of this contract within five days after notification of award.

25. PRICE IS FIRM. The unit prices bid shall remain firm, and any other charges bid shall also remain firm, for delivery of the equipment, material, work, or services described in this bid. No cost increase shall be charged for any reason whatsoever.

26. EXTENSION OF PRICE PROTECTION. Any contract entered into pursuant to this bid to supply the County's requirements of goods and/or services for a definite period of time as stated in the attached specifications may be extended for not more than two successive periods of equal length at the same bid price upon the mutual agreement of the successful bidder and the County. All extensions shall be submitted in writing and shall have prior approval by the County of Erie, Director of Purchase.

27. IN EXECUTING THIS BID, THE BIDDER AFFIRMS that all of the requirements of the specifications are understood and accepted by the bidder, and that the prices quoted include all required materials and services. The undersigned has checked all of the bid figures, and understands that the County will not be responsible for any errors or omissions on the part of the undersigned in preparing this bid. Mistakes or errors in the estimates, calculations or preparation of the bid shall not be grounds for the withdrawal or correction of the bid or bid security. In case of error in extension of prices in the bid, the unit price will govern.

28. ACCOUNTABILITY. The undersigned shall be fully accountable for his or its performance under this bid, or any contract entered into pursuant to this bid, and agrees that he, or its officers, will answer under oath all questions relevant to the performance thereof and to any transaction, act or omission had, done or omitted in connection therewith if called before any Judicial, County or State officer or agency empowered to investigate the contract or his performance.

29. TERMINATION OF CONTRACT:

a. At its option, the County may at any time for any reason terminate this agreement and the Contractor shall immediately cease all work under the agreement upon receipt of written notice of such termination from the County.

b. In the event of termination for any reason other than the fault of the Contractor, or the nonavailability of funds as provided in the above Executory Clause, the Contractor shall be paid the amount due to date of termination, and all reasonable expenses caused by such termination.

30. THE SUCCESSFUL BIDDER TO WHOM THE BID IS AWARDED SHALL INDEMNIFY AND HOLD HARMLESS the County of Erie and its agents and employees from and against all claims, damages, losses or causes of action arising out of or resulting from such vendor's performance pursuant to this bid.

31. STATUS AS AN INDEPENDENT CONTRACTOR: The successful Bidder to whom the bid is awarded and the County agree that the Bidder and its officers, employees, agents, contractors, subcontractors and/or consultants are independent contractors and not employees of the County or any department, agency or unit thereof. In accordance with their status as independent contractors, the Bidder covenants and agrees that neither the Bidder nor any of its officers, employees, agents, contractors, subcontractors and/or consultants will hold themselves out as, or claim to be, officers or employees of the County or any department, agency or unit thereof.

32. GOVERNED BY NEW YORK LAW: This Agreement shall be construed and enforced in accordance with the laws of the State of New York. In addition, the parties hereby agree that for any cause of action arising out of this Agreement shall be brought in the County of Erie.

(Rev. 04/09)

ERIE COUNTY OFFICE BUILDING, 95 FRANKLIN STREET, BUFFALO, NEW YORK 14202 (716) 858-6395

County of Erie

DIVISION OF PURCHASE

To facilitate correct drawing and execution of contract, bidder shall supply full information concerning legal status:

FIRM NAME _____

ADDRESS OF PRINCIPAL OFFICE STREET _____

CITY _____

AREA CODE _____ PHONE _____ STATE _____ ZIP _____

Check one: CORPORATION _____ PARTNERSHIP _____ INDIVIDUAL _____

INCORPORATED UNDER THE LAWS OF THE STATE OF _____

If foreign corporation, state if authorized to do business in the State of New York:

YES _____ NO _____

TRADE NAMES: _____

ADDRESS OF LOCAL OFFICE STREET _____

CITY _____

AREA CODE _____ PHONE _____ STATE _____ ZIP _____

NAMES AND ADDRESSES OF PARTNERS:

_____	_____
_____	_____
_____	_____
_____	_____



County of Erie

DIVISION OF PURCHASE

ASSIGNMENT OF PUBLIC CONTRACTS

GENERAL MUNICIPAL LAW - Section 109:

1. A clause shall be inserted in all specifications of contracts hereafter made or awarded by an officer, board or agency of a political subdivision, or any district therein, prohibiting any contractor, to whom any contract shall be let, granted or awarded, as required by law, from assigning, transferring, conveying, subletting or otherwise disposing of the same, or of his right, title or interest therein, or his power to execute such contract, to any other person or corporation without the previous consent in writing of the officer, board or agency awarding the contract.
2. If any contractor, to whom any contract is let, granted, or awarded, as required by law, by any officer, board or agency of a political subdivision, or of any district therein, without the previous written consent specified in subdivision one (1) of this section, assign, transfer, convey, sublet or otherwise dispose of such contract, or his right, title or interest therein, or his power to execute such contract to any other person or corporation, the officer, board or agency which let, made, granted or awarded such contract shall revoke and annul such contract, and the political subdivision or district therein, as the case may be, and such officer, board or agency shall be relieved and discharged from all liability and obligations growing out of such contract to such contractor, and to the person or corporation to which such contract shall have been assigned, transferred, conveyed, sublet or otherwise disposed of, and such contractor, and his assignee, transferee or sublessee shall forfeit and lose all monies, theretofore earned under such contract, except so much as may be required to pay his employees. The provisions of this section shall not hinder, prevent or affect any assignment by any such contractor for the benefit of his creditors made pursuant to the laws of the State.

NO ASSIGNMENT OF ANY AGREEMENT pursuant to this bid shall be made without specific prior approval, in writing, by the Erie County Director of Purchase.

(Rev. 12/01/93)



COUNTY OF ERIE

DIVISION OF PURCHASE

PURCHASES BY OTHER LOCAL GOVERNMENTS OR SPECIAL DISTRICTS

The Erie County Legislature has adopted the following resolution for the purpose of allowing the following-named local governmental or school districts to make purchases through the County bidding procedures.

Under the following conditions, the Director of Purchase may make purchasing services available to the following 88 participants:

1. When in the opinion of the Director of Purchase it will not create any burden or hardship upon the County and the anticipated prices will not be adversely affected thereby, the Director is authorized when he deems appropriate and as may be requested by the participants to provide in any particular County bid specification that the participants in Erie County shall have the right to make purchases based upon the bids received by the County.
2. The County Purchase Director, within the limits of his time and manpower, shall disseminate relevant contract information to the participants.
3. The participants in County contracts will issue purchase orders directly to vendors within the specified contract period referencing the County contract involved and be liable for any payments due on such purchase orders.

Bidders shall take notice that as a condition of the award of a County contract pursuant to these specifications, the successful bidder agrees to accept the award of a similar contract with any of the participants in Erie County if called upon to do so. The County, however, will not be responsible for any debts incurred by participants pursuant to this or any other agreement.

Necessary deviations from the County's specifications in the award of a participant's contract, particularly as such deviations may relate to quantities or delivery point, shall be a matter to be resolved between the successful bidder and participants. All inquiries regarding prospective contracts shall be directed to the attention of:

AKRON CENTRAL SCHOOL DISTRICT, District Clerk, 47 Bloomingdale Ave., Akron, NY 14001
 AKRON VILLAGE OF, Clerk-Treasurer, 21 Main St., Akron, NY 14001
 ALDEN CENTRAL SCHOOL DISTRICT, District Clerk, 13190 Park St., Alden, NY 14004
 ALDEN TOWN OF, Town Clerk, Town Hall, 11901 Broadway, Alden, NY 14004
 ALDEN VILLAGE OF, Village Clerk, 13336 Broadway, Alden, NY 14004
 AMHERST CENTRAL SCHOOL DISTRICT, Business Manager, 4301 Main St., Amherst, NY 14226
 AMHERST TOWN OF, Highway Superintendent, Town Hall, 5583 Main St., Williamsville, NY 14221
 AMHERST TOWN OF, Town Supervisor, Town Hall, 5583 Main St., Williamsville, NY 14221
 ANGOLA VILLAGE OF, Clerk-Treasurer, 41 Commercial St., Angola, NY 14006
 AURORA TOWN OF, Town Clerk, Town Hall, 5 S. Grove St., E. Aurora, NY 14052
 BLASDELL VILLAGE OF, Clerk-Treasurer, 121 Miriam St., Blasdell, NY 14219
 BOCES, ERIE #1, Clifford N Crooks Svc. Ctr., 355 Harlem Rd. West Seneca NY 14224-1892
 BOCES, ERIE CATTARAUGUS #2, Assistant Superintendent, 3340 Baker Rd., Orchard Park, NY 14127
 BOSTON TOWN OF, Town Clerk, Town Hall, 8500 Boston State Rd., Boston, NY 14025
 BRANT TOWN OF, Town Clerk, Town Hall, Brant North Collins Rd., Brant, NY 14027
 BUFFALO BOARD OF EDUCATION, Purchasing Agent, 408 City Hall, Buffalo, NY 14202
 BUFFALO CITY OF, Division of Purchasing, 1901 City Hall, Buffalo, NY 14202
 BUFFALO MUNICIPAL HOUSING AUTHORITY, 300 Perry St., Buffalo, NY 14204-2299
 BUFFALO SEWER AUTHORITY, General Manager, 1038 City Hall, Buffalo, NY 14202-3378
 CHEEKTOWAGA CENTRAL SCHOOL DISTRICT, 3600 Union Rd., Cheektowaga, NY 14225
 CHEEKTOWAGA-MARYVALE UNION FREE SCHOOL DISTRICT, District Clerk, 1050 Maryvale Dr., Cheektowaga, NY 14225-2386
 CHEEKTOWAGA-SLOAN UNION FREE SCHOOL DISTRICT, District Clerk, 166 Halstead Ave., Sloan, NY 14212-2295
 CHEEKTOWAGA TOWN OF, Town Hall, Broadway & Union Rds., Cheektowaga, NY 14227
 CLARENCE CENTRAL SCHOOL DISTRICT, Business Administrator, 9625 Main St., Clarence, NY 14031-2083
 CLARENCE TOWN OF, Town Clerk, 1 Town Place, Clarence, NY 14031
 CLEVELAND HILL FIRE DISTRICT NO. 6, Secretary, 440 Cleveland Dr., Cheektowaga, NY 14225
 CLEVELAND HILL U.F.S.D. @ CHEEKTOWAGA, Business Manager, 105 Mapleview Dr., Cheektowaga, NY 14225

COLDEN TOWN OF, Deputy Town Clerk, Town Hall, S-8812 State Rd., Colden, NY 14033
 COLLINS TOWN OF, Supervisor, Town Hall, P.O. Box 420, Collins, NY 14035
 CONCORD TOWN OF, Town Clerk, Town Hall, Springville, NY 14141-0187
 DEPEW UNION FREE SCHOOL DISTRICT, District Clerk, 591 Terrace Blvd., Depew, NY 14043
 DEPEW VILLAGE OF, Village Clerk, Municipal Building, 85 Manitou St., Depew, NY 14043
 EAST AURORA VILLAGE OF, Village Clerk, Village Hall, 571 Main St., East Aurora, NY 14052
 EDEN TOWN OF, Town Clerk, 2795 East Church St., Eden, NY 14057
 EGGERTSVILLE FIRE DISTRICT, Secretary/Treasurer, 1880 Eggert Rd., Eggertsville, NY 14226-2233
 ELLWOOD FIRE DISTRICT #1, Secretary, Town of Tonawanda, 1000 Englewood Ave., Kenmore, NY 14223
 ELMA TOWN OF, Town Clerk, Town Hall, 1600 Bowen Rd., Elma, NY 14059
 ERIE COUNTY MEDICAL CENTER, 462 GRIDER STREET, BUFFALO, NY 14215
 ERIE COMMUNITY COLLEGE, South Campus Business Office, 4041 Southwestern Blvd., Orchard Park, NY 14127-2199
 ERIE COUNTY WATER AUTHORITY, Central Processing, 3030 Union Rd., Buffalo, NY 14227
 EVANS TOWN OF, Town Clerk, 42 N. Main St., Angola, NY 14006
 FARNHAM VILLAGE OF, Village Clerk-Treasurer, 526 Commercial St., Farnham, NY 14061
 FORKS FIRE DISTRICT #3, Commissioner, Town Cheektowaga, 3330 Broadway, Cheektowaga, NY 14227
 GOWANDA VILLAGE OF, Clerk/Treasurer, 27 East Main St., Gowanda, NY 14070
 GRAND ISLAND CENTRAL SCHOOL DISTRICT, District Clerk, 1100 Ransom Rd., Grand Island, NY 14072
 GRAND ISLAND TOWN OF, Town Clerk, 2255 Baseline Rd., Grand Island, NY 14072
 HAMBURG TOWN OF, Town Clerk, S-6100 S. Park Ave., Hamburg, NY 14075
 HAMBURG VILLAGE OF, Village Clerk/Treasurer, 100 Main St., Hamburg, NY 14075
 HOLLAND FIRE DISTRICT #1, Town of Holland, Holland, NY 14080
 HOLLAND TOWN OF, Town Clerk, 47 Pearl St., Holland, NY 14080
 HOPEVALE UNION FREE SCHOOL DISTRICT, District Clerk, 3780 Howard Rd., Hamburg, NY 14075
 IROQUOIS CENTRAL SCHOOL DISTRICT, Girdle Rd., Elma, NY 14059
 KENILWORTH FIRE DISTRICT #2, Commissioner, Tn. Tonawanda, 84 Hawthorne Ave., Buffalo, NY 14223
 KENMORE-TN OF TONAWANDA UNION FREE SCHOOL DISTRICT, District Clerk, 1500 Colvin Blvd., Buffalo NY 14223
 KENMORE VILLAGE OF, Village Clerk-Treasurer, Municipal Building, Kenmore, NY 14217
 LACKAWANNA CITY OF, City Clerk, Lackawanna City Hall, 714 Ridge Rd., Lackawanna, NY 14218
 LAKE VIEW FIRE DISTRICT, Fire Commissioner, Lakeview & Burke Roads, Lake View, NY 14085
 LANCASTER TOWN OF, Town Clerk, 21 Central Avenue, Lancaster, NY 14086
 LANCASTER VILLAGE OF, Clerk-Treasurer, Municipal Building, 5423 Broadway, Lancaster, NY 14086
 MARILLA TOWN OF, Marilla Town Hall, 1740 Two Rod Rd., Marilla, NY 14102
 MONROE ONE BOCES, Educational Services, 41 O'Connor Rd., Fairport, NY 14450
 NEWSTEAD TOWN OF, Town Clerk, Town Hall, P.O. Box 227, Akron, NY 14001
 NIAGARA FRONTIER TRANSPORTATION AUTHORITY, 181 Ellicott St., Buffalo, NY 14205
 NORTH COLLINS TOWN OF, Town Clerk 2015 Spruce St., North Collins, NY 14111
 NORTH COLLINS VILLAGE OF, Village Clerk, 10543 Main St., North Collins, NY 14111
 ORCHARD PARK CENTRAL SCHOOL DISTRICT, Asst. Supt. Bus. & Support Svcs. 3330 Baker Rd., Orchard Park, NY 14127
 ORCHARD PARK TOWN OF, Town Clerk, Municipal Bldg., 4295 S. Buffalo St., Orchard Park, NY 14127
 ORCHARD PARK VILLAGE OF, Clerk, Municipal Bldg., 4295 S. Buffalo St., Orchard Park, NY 14127
 SARDINIA TOWN OF, Town Clerk, Town Hall, Savage Rd., Sardinia, NY 14134
 SHERIDAN PARK FIRE DISTRICT NO. 4, Secretary, 738 Sheridan Dr., Tonawanda, NY 14150
 SLOAN VILLAGE OF, Clerk Treasurer, 425 Reiman St., Sloan, NY 14212
 SNYDER VOL. FIRE DEPT., Fire Commissioner, 4531 Main Street, Snyder, NY 14226
 SOUTH LINE FIRE DISTRICT #10, Fire Commissioner, 1049 S. French Rd., S. Cheektowaga, NY 14227
 SOUTH WALES FIRE DISTRICT #1, Secretary/Treasurer, P.O.Box 94, South Wales, NY 14139
 SPRING BROOK FIRE DISTRICT #1, Secretary, P.O. Box 97, Spring Brook, NY 14140
 SPRINGVILLE VILLAGE OF, Clerk Treasurer, Village Office, 5 W. Main St., Springville, NY 14141
 SUNY ERIE COMMUNITY COLLEGE, 6205 Main St., Williamsville, NY 14221
 SWEET HOME CENTRAL SCHOOL DISTRICT, Director Finance & Plant Svcs., 1901 Sweet Home Rd., Amherst, NY 14228
 TONAWANDA CITY OF, Mayor, 200 Niagara St., Tonawanda, NY 14150
 TONAWANDA CITY OF, Superintendent, 150 Fillmore Avenue, Tonawanda, NY 14150
 TONAWANDA CITY SCHOOL DISTRICT, District Clerk, 100 Hinds St., Tonawanda, NY 14150-1815
 TONAWANDA TOWN OF, Town Clerk, Municipal Building, Kenmore, NY 14217
 U-CREST FIRE DISTRICT #4, Fire Commissioner, 255 Clover Place, Cheektowaga, NY 14225
 UNION FREE SCHOOL DISTRICT, Dist. Clerk, Tn. Tonawanda, 1500 Colvin Blvd., Kenmore, NY 14223
 WALDEN FIRE DISTRICT #2, Fire Commissioner, 20 Pine Ridge Road, Cheektowaga, NY 14211
 WALES TOWN OF, Town Clerk, Big Tree Rd., Wales Center, NY 14169
 WEST SENECA CENTRAL SCHOOL DISTRICT, District Treasurer, 1397 Orchard Park Rd., West Seneca, NY 14224-4098
 WEST SENECA FIRE DISTRICT #4, Fire Commissioner, 100 Lein Rd., West Seneca, NY 14224
 WEST SENECA FIRE DISTRICT #5, Fire Commissioner, 2801 Seneca St., West Seneca, NY 14224
 WEST SENECA TOWN OF, Town Clerk, 1250 Union Road, West Seneca, NY 14224
 WILLIAMSVILLE CENTRAL SCHOOL DISTRICT, District Clerk, 105 Casey Rd, PO Box 5000, East Amherst NY 14051
 WILLIAMSVILLE VILLAGE OF, 5565 Main St., Williamsville, NY 14231-1557
 WYOMING, COUNTY OF, Office of the Board of Supervisors, 143 N Main St., Warsaw, NY 14569



County of Erie

DIVISION OF PURCHASE CONSTRUCTION/RECONSTRUCTION CONTRACTS

1. DISCRIMINATION. The successful bidder agrees:

(a) that in the hiring of employees for the performance of work under this contract or any subcontract hereunder, no contractor, subcontractor, nor any person acting on behalf of such contractor or subcontractor, shall by reason of race, creed, color, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates;

(b) that no contractor, subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee hired for the performance of work under this contract on account of race, creed, color, sex or national origin;

(c) that there may be deducted from the amount payable to the contractor by the County of Erie under this contract a penalty of fifty dollars for each person for each calendar day during which such person was discriminated against or intimidated in violation of the provisions of the contract;

(d) that this contract may be cancelled or terminated by the County of Erie and all monies due or to become due hereunder may be forfeited, for a second or any subsequent violation of the terms or conditions of this section of the contract; and

(e) the aforesaid provisions of this section covering every contract for or on behalf of the County of Erie for the manufacture, sale or distribution of materials, equipment or supplies shall be limited to operations performed within the territorial limits of the State of New York.

(N.Y. State Labor Law Article 8 Section 220-e)

(f) Provisions of the State Law Against Discrimination also prohibit discrimination in employment because of age.

2. CONSTRUCTION, RECONSTRUCTION, OR REPAIR CONTRACTS FOR PUBLIC WORKS FACILITIES are subject to minimum wage rates, as established by the State of New York Department of Labor. The successful bidder on any contract for public works to which the provisions of the New York State Labor Law Article 8 apply agrees that:

(a) No laborer, workman or mechanic in the employ of the contractor, subcontractor or other person doing or contracting to do the whole or a part of the work contemplated by the contract shall be permitted or required to work more than eight hours in any one calendar day or more than five days in any one week except in cases of extraordinary emergency including fire, flood or danger to life or property.
(Section 220, subd. 2, N.Y. State Labor Law)

(b) Each laborer, workman or mechanic employed by the contractor, subcontractor or other person doing or contracting to do the whole or part of the work contemplated by the contract shall be paid not less than the hourly minimum rate of wage and provided supplements not less than the prevailing supplements as designated by the New York State Industrial Commission.
(Section 220, subd. 3, N.Y. State Labor Law)

Wage and supplement rates are on file in the Division of Purchase.

3. AFFIRMATIVE ACTION PROGRAM AFFECTING CONSTRUCTION CONTRACTS. The Erie County Legislature has adopted a resolution directing that County Construction Contracts require the contractor to take affirmative action to secure equal opportunity for minority group workers and to comply with the Affirmative Action Program of the County of Erie. The Legislative resolution provides that a contract for the purchase of equipment involving installation work by building trade employees shall be considered a construction contract if the number of such employees on the job site shall at any time exceed ten (10). If the contractor intends to have more than ten (10) such employees on the job site at any one time, it shall be the contractor's obligation to make a written request to the Director of the Division of Purchase for a copy of the special conditions pertaining to affirmative action. The contractor shall not, at any time, place more than ten (10) such employees on the job site except in compliance with the said resolution and the said special conditions.

ERIE COUNTY OFFICE BUILDING, 95 FRANKLIN STREET, BUFFALO, NY 14202 (716) 858-6395



County of Erie

DIVISION OF PURCHASE

BID BOND (FORMAL BID)

BID BOND OR CERTIFIED CHECK FOR \$ ----- OR FOR 10% OF THE TOTAL BID MUST BE SUBMITTED WITH THE BID. The undersigned agrees that the bid security may be retained by the County until contracts have been signed and Performance Bonds have been delivered to the County, except as provided in Paragraph 23, in the Invitation to Bid. SHOULD THE SUCCESSFUL BIDDER TO WHOM THE BID IS AWARDED FAIL TO EXECUTE THE AGREEMENT SUBMITTED BY THE COUNTY IN ACCORDANCE WITH THE FORMAL BID AND OTHER CONTRACT DOCUMENTS AND TO FURNISH THE REQUIRED PERFORMANCE BOND WITHIN FOURTEEN (14) CALENDAR DAYS AFTER THE NOTICE OF AWARD, THE CERTIFIED CHECK OR THE BID BOND AMOUNT SHALL BE FORFEITED TO THE COUNTY AS LIQUIDATED DAMAGES CAUSED BY SUCH FAILURE.

(Rev. 4/1/93)

ERIE COUNTY OFFICE BUILDING, 95 FRANKLIN STREET, BUFFALO, NEW YORK 14202 (716) 858-6395

Erie County Equal Pay Certification

In order to comply with Executive Order 13 dated November 6, 2014, we hereby certify that we are in compliance with federal law, including the Equal Pay Act of 1963, Title VII of the Civil Rights Act of 1964, Federal Executive Order 11246 of September 24, 1965 and New York State Labor Law Section 194 (together "Equal Pay Law"). We understand that this certification is a material component of this contract. Violation of the provisions of Executive Order 13, which is attached hereto and made a part hereof, can constitute grounds for the immediate termination of this contract and may constitute grounds for determining that a bidder is not qualified to participate in future county contracts.

We have evaluated wages and benefits to ensure compliance with the Equal Pay Law.

We certify that we have not been the subject of an adverse finding under the Equal Pay Law within the previous five years and, in the alternative, if we were the subject of an adverse finding under the Equal Pay Law within the previous five years, we have annexed a detailed description of the finding(s). In addition, we have annexed a detailed description of any currently pending claims under the Equal Pay Law in which we are involved.

Signature

Verification

STATE OF _____)
COUNTY OF _____) SS:

A)

_____, being duly sworn, states he or she is the owner of (or a partner in) _____, and is making the foregoing Certification and that the statements and representations made in the Certification are true to his or her own knowledge.

B)

_____, being duly sworn, states that he or she is the Name of Corporate Officer _____, of _____, Title of Corporate Officer Name of Corporation the enterprise making the foregoing Certification, that he or she has read the Certification and knows its contents, that the statements and representations made in the Certification are true to his or her own knowledge, and that the Certification is made at the direction of the Board of Directors of the Corporation.

Sworn to before me this _____
Day of _____, 20____



County of Erie

DIVISION OF PURCHASE

STANDARD AGREEMENT

This AGREEMENT, made as of the _____

by and between _____

of _____

herein after referred to as the Contractor, and the County of Erie, a municipal corporation of the State of New York, hereinafter referred to as the County:

WHEREAS, in accordance with public open competitive bidding, sealed proposals were received and publicly opened by the County of Erie, Division of Purchase

on _____ at _____

for: _____

WHEREAS, the bid of the Contractor submitted in accordance therewith, the sum of _____,

was the lowest responsible bid submitted; and

WHEREAS, a contract is hereby awarded to the Contractor by the County, in accordance with the provisions therein contained; and

WHEREAS, the Notice to Bidders and Specifications make provisions for entering into a proper and suitable contract in connection therewith;

NOW, therefore, the Contractor does hereby for its heirs, executors, administrators and successors agree with the County of Erie that, the Contractor shall for the consideration mentioned, and in the manner set forth in Accepted Invitation to Bid No. _____, Specifications and Provisions of Law annexed hereto and forming a part of this contract, furnish the equipment and materials and perform the work and services described in the Accepted Bid for the above sum.

_____ Paid monthly upon presentation of invoices.

_____ Upon delivery, completion and approval of the
work, as per specifications.

Please refer to the Invitation to Bid (Page 1) and the Instructions to Bidders which are part of this agreement.

IN WITNESS THEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

COUNTY OF ERIE

CONTRACTOR: _____

by _____ by _____
Director of Purchase

Date _____ Title _____

Date _____

APPROVED AS TO FORM

Assistant County Attorney
County of Erie, New York

Date _____

COUNTY OF ERIE
STANDARD INSURANCE REQUIREMENTS

Vendor Insurance Classification C: Contracts Involving Professional Services

1. The provider of professional services shall obtain, at its own cost and expense, the following insurance coverages with insurance companies licensed in the State of New York and shall provide a certificate of insurance as evidence of such coverages on the County of Erie Standard Insurance Certificate.

- A. Commercial General Liability - with a minimum combined single limit of liability for Bodily Injury and Property Damage of \$1,000,000 per occurrence and \$2,000,000 general aggregate and \$2,000,000 Products – Completed Operation Aggregate. The coverage shall include:
 - Premises and Operations
 - Products and Completed Operations
 - Independent Contractors
 - Contractual Liability (sufficient to cover all liability assumed under contracts with the County of Erie)
- B. Automobile Liability - with a minimum combined single limit of liability for Bodily Injury and Property Damage of \$1,000,000 each occurrence. The coverage shall include Owned, Hired, and Non-Owned Autos (Symbol "1" should be designated for Liability coverage on the Business Auto Policy).
- C. Excess "Umbrella" Liability - with a minimum limit of \$1,000,000 each occurrence / \$1,000,000 aggregate.
- D. Worker's Compensation and Employer's Liability - providing statutory coverage in compliance with the Worker's Compensation Law of the State of New York (Forms C-105.2; SI-12; GSI-105.2; or U-26.3).
- E. Disability Benefits - providing statutory coverage in compliance with the New York State Disability Benefits Law (Forms DB-120.1 or DB-155).
- F. Professional Liability (Errors and Omissions or Malpractice) – with a minimum limit of \$5,000,000.

Failure to maintain coverage herein shall constitute a material breach of this contract and the Contractor shall suspend all work immediately upon such lapse in coverage.

2. Commercial General Liability, Automobile Liability and Excess "Umbrella" Liability shall name the County of Erie and any Board, Bureau, Commission or Agency thereof as additional insureds on ISO Form CG 2010 1185 Edition. Coverage should be provided on a primary and non-contributory bases. Waiver of Subrogation is required on all lines in favor of Erie County.

3. All policies in which the County of Erie is named as an additional insured shall provide that:

- A. The insurance company or companies issuing the policies shall have no recourse against the County of Erie for payment of any premiums or for assessments under any form of policy.
- B. The insurance shall apply separately to each insured (except with respect to the limit of the liability).

4. Prior to cancellation, non-renewal or material change of the above policies, at least forty-five (45) days advance written notice shall be given to the County of Erie, Department of Law, 95 Franklin Street, Room 1634, Buffalo, N.Y. 14202, and the Agency requesting the certificate.

5. All certificates of insurance shall be approved by the Erie County Department of Law prior to the inception of any work.

6. The "ACCORD" form certificate may be used in place of the Erie County Standard Insurance Certificate, provided that all of the requirements set forth in the instructions for the Erie County Standard Insurance Certificate are incorporated into the "ACCORD" form certificate.

County of Erie Standard Insurance Certificate



THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME	
	PHONE (A/C No. Ext.)	FAX A/C No.
INSURED	EMAIL ADDRESS	
	PRODUCER CUSTOMER ID #:	
	INSURER(S) AFFORDING COVERAGE	
	NAIC #	
	INSURER A:	
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADOL SUBR INSR WVO	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY					EACH OCCURRENCE \$
	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY					DAMAGE TO RENTED PREMISES (Ea occurrence) \$
	<input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR					MED EXP (Any one person) \$
						PERSONAL & ADV INJURY \$
	GEN'L AGGREGATE LIMIT APPLIES PER					GENERAL AGGREGATE \$
	<input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC					PRODUCTS COMPIOP AGG \$
	AUTOMOBILE LIABILITY					COMBINED SINGLE LIMIT (Ea accident) \$
	<input type="checkbox"/> ANY AUTO					BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS					BODILY INJURY (Per accident) \$
	<input type="checkbox"/> SCHEDULED AUTOS					PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS					
	<input type="checkbox"/> NON-OWNED AUTOS					
	UMBRELLA LIAB	<input type="checkbox"/> OCCUR				EACH OCCURRENCE \$
	<input type="checkbox"/> EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE				AGGREGATE \$
	<input type="checkbox"/> DEDUCTIBLE					
	<input type="checkbox"/> RETENTION \$					
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	<input type="checkbox"/> Y/N	N/A			WC STATU TORY LIMITS: <input type="checkbox"/> OTH ER- \$
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICE/MEMBER EXCLUDED? (Mandatory in NH)					E.L. EACH ACCIDENT \$
	If yes describe under DESCRIPTION OF OPERATIONS below					E.L. DISEASE - EA EMPLOYEE \$
						E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER	CANCELLATION
County of Erie 95 Franklin St Buffalo NY, 14202	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE

X. FOR COUNTY USE ONLY: Name of County Dept. Requesting Certificate _____

Purchase Order or Contact Number _____

Vendor Insurance Classification _____

INSTRUCTIONS FOR COUNTY OF ERIE STANDARD INSURANCE CERTIFICATE

- I. Insurance shall be procured and certificates delivered before commencement of work or delivery of merchandise or equipment.
- II. CERTIFICATES OF INSURANCE
 - A. Shall be made to the "County of Erie, 95 Franklin St, Buffalo NY, 14202"
 - B. Coverage must comply with all specifications of the contract.
 - C. Must be executed by an insurance company, agency or broker, which is licensed by the Insurance Department of the State of New York. If executed by a broker, notarized copy of authorization to bind or certify coverage must be attached.
- III. Forward the completed certificate to: County of Erie, (Department or Division) responsible for entering into the agreement for construction, purchase, lease or service.
- IV. Minimum coverage with limits are as follows:

Vendor Classification	A Construction and Maintenance	B Purchase or Lease of Merchandise or Equipment	C Professional Services	D Property Leased To Others Or Use Of Facilities Or Grounds	E Concessionaires Services	F Livery Services	G All Purposes Public Entity Contracts
Commercial Gen. Liab.	\$1,000,000 per occ.	\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000	\$1,000,000 CSL	\$1,000,000	\$1,000,000 CSL
General Aggregate	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
Products Completed Operations Liability	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
Blanket Broad Form Contractual Liability	INCLUDE						
Contractual Liability		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Broad Form P.D.	INCLUDE						
X.C.U. (explosion, collapse, Underground)	INCLUDE						
Liquor Law				INCLUDE	INCLUDE		
Auto Liab.	\$1,000,000 CSL		\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000 CSL
Owned	INCLUDE		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Hired	INCLUDE		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Non-Owned	INCLUDE		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Excess/Umbrella Liab.	\$5,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000	\$1,000,000
Worker's Compensation & Employer's Liability	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY
Disability Benefits	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY
Professional Liability			\$5,000,000				
Erie County, To Be Named Add'l Insd.	Gen. Liab., Auto Liab., & Excess	Broad Form Vendors May Be Required	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess

- V. Construction contracts require excess Umbrella Liability limits of \$5,000,000.
- VI. Coverage must be provided on a primary-non contributory bases.
- VII. Designated Construction Project General Aggregate Limit Per Project Endorsement CG 25 03 is required.
In the event the concessionaire is required to have a N.Y.S. license to dispense alcoholic beverages an endorsement for liquor liability is required.
- IX. Waiver of Subrogation: Required on all lines unless noted
- X. Transportation of people in buses, vans or station wagons requires \$5,000,000 excess liability.
- XI. Workers Compensation: State Workers' Compensation / Disability Benefits Law
Use Applicable Certificates Below:

Workers Compensation Forms

CE-200	Exemption
C105.2	Commercial Insurer
SI-12	Self Insurer
GSI-105.2	Group Self Insured
U-26.3	New York State Insurance Fund

DBL (Disability Benefits Law) Forms

CE-200	Exemption
DB-120.1	Insurers
DB-155	Self Insured

- XII. The "ACORD" form certificate may be used in place of the County of Erie Standard Insurance Certificate, provided that all of the above referenced requirements are incorporated into the "ACORD" form certificate.

NEW YORK STATE CERTIFIED APPRENTICESHIP
TRAINING PROGRAM CERTIFICATION

Pursuant to Erie County Local Law 2-2006 the following MUST be submitted along with supporting documentation unless the Contracting Agency has otherwise determined under Section 2f of the Erie County Rules and Regulations that the New York State Certified Apprenticeship Training Program does not apply.

TO BE FILLED OUT BY BIDDER: please check that which applies and sign below.

- [] Enclosed is a copy of the certification of approval of the New York State Certified Apprenticeship Training Program (NYSCATP) by the New York State Department of Labor which, as Bidder, will use in connection with the construction contract. Also enclosed is a written plan demonstrating how apprentices will be utilized by the Bidder as Prime Contractor or by the Subcontractor(s) to the Bidder as Prime Contractor. Such plan shall include at a minimum:
- i. An organized written plan in place that embodies the terms and conditions of employment, training and supervision of one or more apprentices;
 - ii. A schedule of wages to be paid to the apprentices consistent with the skills required and approved by the New York State Department of Labor;
 - iii. Equal employment and affirmative action plans; and
 - iv. Demonstration that a minimum of ten percent (10%) of the Workforce of the Prime Contractor (inclusive of the workforce utilized by any Subcontractor(s) to the Bidder) shall consist of persons participating in NYSCATP.
- [] Enclosed is a detailed explanatory written statement as to the inapplicability of apprenticeship participation due to: The lack of career opportunities in NYSCATP approved by New York State Department of Labor Commissioner; OR The magnitude of the construction contract which would make use of apprentices impracticable.

SIGNATURE

COMPANY NAME

DATE

CONFINED SPACE PROGRAM CERTIFICATION

This is to certify that _____ has
(Company Name)

Established a Confined Space Program which conforms to OSHA 29 CFR Part 1910, as it may be amended. Furthermore, it is understood that full implementation of the contractor's Confined Space Program is a requirement of this contract.

By: _____
Contractor's Signature

Typed or Printed Name

Title

Business Name

Business Address

Requirements for OSHA 10 Compliance

Chapter 282 of the Laws of 2007, codified as Labor Law 220-h took effect on July 18, 2008. The statute provides as follows:

The advertised specifications for every contract for public work of \$250,000.00 or more must contain a provision requiring that every worker employed in the performance of a public work contract shall be certified as having completed an OSHA IO safety training course. The clear intent of this provision is to require that all employees of public work contractors, required to be paid prevailing rates, receive such training "prior to the performing any work on the project."

The Bureau will enforce the statute as follows:

All contractors and sub contractors must attach a copy of proof of completion of the OSHA 10 course to the first certified payroll submitted to the contracting agency and on each succeeding payroll where any new or additional employee is first listed.

Proof of completion may include but is not limited to:

- Copies of bona fide course completion card (*Note: Completion cards do not have an expiration date.*)
- Training roster, attendance record of other documentation from the certified trainer pending the issuance of the card.
- Other valid proof

****** A certification by the employer attesting that all employees have completed such a course is not sufficient proof that the course has been completed.

Any questions regarding this statute may be directed to the New York State Department of Labor, Bureau of Public Work at 518-485-5696.



County of Erie

DIVISION OF PURCHASE

PERFORMANCE BOND

The successful bidder or bidders whose proposal is accepted shall, within two weeks after notice of the award, enter into a contract with the County of Erie and furnish a performance bond running to the County of Erie in the Penal amount of **100 %** of the contract price, if the contract is based on a lump sum price, or 100% of the estimated cost if the contract is based on a unit price. Such bond to be approved by the County of Erie Department of Law and to be executed by the bidder as **PRINCIPAL** and by a duly incorporated company authorized to guarantee the performance of contracts and to do business in the State of New York as **SURETY**. The condition of said bond shall read to conform with the County of Erie Performance Bond format without exception, as per County of Erie Form Exhibit "PBI".

(Rev. 4/1/93)



COUNTY OF ERIE

DIVISION OF PURCHASE

PERFORMANCE BOND

BOND NO. _____

KNOW ALL MEN BY THESE PRESENTS, that we, _____
 of _____ (hereinafter called PRINCIPAL) and the _____
 _____ a corporation of the State of _____ having its principal office in
 the City of _____ and authorized to do business in the State of New York (hereinafter
 called SURETY) and held and firmly bound into the _____ New York
 (hereinafter called OBLIGEE), in the amount of _____
 \$ _____ Dollars, lawful money of the United States of
 America, for the payment of which the PRINCIPAL and the SURETY hereby bind themselves, their heirs, executors,
 administrators, successors and assigns jointly and severally, firmly by these presents.

WHEREAS the above bounden PRINCIPAL has by written agreement dated _____, 19 _____
 entered into a contract with the OBLIGEE for \$ _____
 _____ which contract and documents included therein by reference is by reference made a part
 hereof (hereinafter called CONTRACT), covering the following project.

 (Describe Project)

NOW, THEREFORE, the condition of this obligation is such that if the PRINCIPAL shall:

1. well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of said Contract during the original term of said Contract and any extensions thereof that may be granted by the OBLIGEE, with or without notice to the SURETY, and during the life of any guarantee required under the Contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of any and all modifications of said Contract that may hereafter be made, with or without notice to the SURETY.

2. promptly make payment to all persons having a direct Contract with the PRINCIPAL or with a subcontractor of the PRINCIPAL supplying labor and material in the prosecution of the work provided for in said Contract and any and all modifications of said Contract that may hereinafter be made, notice of which modifications to the SURETY being hereby waived:

then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED, HOWEVER, and this bond is executed and accepted upon the following express conditions:

1. That all persons who have supplied labor and material as aforesaid shall have a direct right of action hereunder against the PRINCIPAL and the SURETY, subject, however, to the prior right of the OBLIGEE to recover hereunder on account of any loss or damage caused to it by the failure of the PRINCIPAL to perform the Contract as aforesaid.
2. The SURETY for value received hereby stipulates and agrees, if requested to do so by the OBLIGEE, to fully perform and complete the work and furnish the materials mentioned and described in said Contract pursuant to terms, conditions and covenants thereof, if for any cause said PRINCIPAL fails or neglects to so fully perform said work; the said SURETY further agrees to commence said work of completion twenty (20) days after notice thereof from the OBLIGEE.
3. That the OBLIGEE shall notify the SURETY by registered letter addressed and mailed to its Home Office, of any breach of said Contract within sixty (60) days after such breach shall have come to the knowledge of the OBLIGEE.
(Owner)
4. That the SURETY shall not be liable hereunder for any damage or compensation recoverable under any Worker's Compensation or Employer's Liability Statute.
5. That no suit, action or proceeding for loss or damage caused by a breach of any of the conditions of this bond shall be brought against the SURETY by the OBLIGEE after one (1) year from the day of final acceptance of the work by the Owner.
6. That no suit, action or proceeding for loss caused by the failure of the PRINCIPAL to pay all persons supplying labor and material in the prosecution of the work under said Contract shall be brought against the SURETY after six (6) months from the day on which final payment of the Contract is made.

Signed, sealed and dated this _____ day of _____ 20 _____

(PRINCIPAL)

By: _____
President, Vice President, Secretary-Treasurer.,

(SURETY) (SEAL)

By: _____

EXECUTED POWERS OF ATTORNEY TO BE SUBMITTED WITH PERFORMANCE BOND.

NEW YORK STATE PREVAILING WAGE

*On contracts which are subject to New York Department of Labor Prevailing Wage laws and regulations, the contractor is required to submit certified payroll record every thirty (30) days after the issuance of your first payroll under this contract. Required forms are available at the New York Department of Labor's website <https://www.labor.state.ny.us/formsdocs/wp/pw12.pdf>.

This project's PRC# 2025013710.

In addition, if applicable, contractor is required to attach a copy of proof of completion of the OSHA 10 course to the first certified payroll submitted and on each succeeding payroll where any new or additional employee is first listed.

Records are to be submitted as directed in your award letter.

Failure to submit the legally required records will result in delayed payments.

Certification Regarding Debarment And Suspension

- 1) As required by Federal Executive Order 12549, and prescribed by federal regulations, including 48 C.F.R. Subpart 9.4, the Contractor certifies that it, and its principals:
- (a) Are not presently disbarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded by any Federal department or agency;
 - (b) Have not within a 3-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction, including any violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a Government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (b) above; and
 - (d) Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- 2) Where the Contractor is unable to certify to any of the statements in this paragraph, the Contractor shall attach an explanation to this certification.

Date: _____

Signature

Title

Business Name

Certification Regarding Drug-Free Workplace Requirements Grantees Other Than Individuals

This certification is required by regulations implementing Sections 5151-5160 of the Drug-Free Workplace Act of 1988, 41 U.S.C. § 701 et seq. See 48 C.F.R. Subpart 23.5.

The Contractor certifies that it will provide a drug-free workplace by:

- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing a drug-free awareness program to inform employees about:
 - (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's policy of maintaining a drug-free workplace;
 - (3) Any available drug counseling, rehabilitation, and employee assistance programs; and,
 - (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will:
 - (1) Abide by the terms of the statement; and,
 - (2) Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five days after such conviction;
- (e) Notifying the agency within ten days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction;
- (f) Taking one of the following actions, within 30 days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted:
 - (1) Taking appropriate personnel action against such an employee, up to and including termination; or
 - (2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State or local health, law enforcement, or other appropriate agency;
- (g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraph (a), (b), (c), (d), (e) and (f).

Date: _____

Signature

Title

Business Name

Certification Regarding Lobbying Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member or Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, A Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. § 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Date: _____

Signature

Title

Business Name

NOTE: If Disclosure Forms are required, please contact: Mr. Will Sexton, Deputy Director, Grants and Contracts Management Division, Room 341F, HHH Building, 200 Independence Avenue, SW, Washington, D.C. 20201-0001

EXHIBIT N – SPECIFIC CONTRACT CONDITIONS

SECTION 01 11 13 WORK COVERED BY CONTRACT DOCUMENTS

PART I – GENERAL

1.1 SUMMARY

- A. This section includes a general listing of work items under the Contract. This listing is not meant to be inclusive of all items of work or what is required to accomplish the Work.
- B. The Work is at the following locations in Erie County Sewer District Nos. 2,4,&6:

ECSD No. 2:

Sweetland Pumping Station: Old Lakeshore Rd between Sweetland and Delamater Rd., Evans, N.Y.
18 Mile Pumping Station: Old Lakeshore Rd south of 18 Mile Creek. Evans, N.Y.
Kellerman Pumping Station: Old Lakeshore Rd south of Schoellkopf Rd. Hamburg, N.Y.
Pinehurst Pumping Station: Old Lakeshore Rd at Crescent Terrace. Hamburg, N.Y.
Schriner Rd Pumping St.: Schreiner Rd north of Beverly Ave Eden, N.Y.

ECSD No. 4:

Iroquois Pumping Station: Iroquois Avenue @ Ronald Drive Lancaster, N.Y.
Haskell Dr. Pumping Station: East of 15 Haskell Drive Lancaster, N.Y.
Pleasantview Pumping St.: 579 Pleasantview Drive Lancaster, N.Y.

ECSD No. 6:

Commerce Dr Pumping St.: East End of Commerce Dr. Lackawanna, N.Y.

C. Related Sections:

1. Section 01 14 17 – Coordination with Owner's Operations
2. Section 01 14 19 – Use of Site
3. Section 01 20 13 – Lump Sum Measurement

4. Section 01 20 16 – Lump Sum Payment
5. Section 01 41 05 – Regulatory Requirements
6. Section 01 45 05 – Quality Control
7. Section 01 61 00 – Common Product Requirements
8. Section 01 71 34 – Protection of the Work and Property

1.2 INTENT

- A. The Contract Documents are complementary, are intended to cooperate and provide for, and include everything necessary for, the proper and complete orderly execution and finishing of the Work. Any work shown on the drawings concerning which there are no particular specification, or the omission from both drawings and specifications of express reference to any work which was intended under the Contract, shall not excuse or relieve Contractor or Subcontractor from furnishing the same. Work or materials described in words which have a well-known technical or trade meaning, shall be interpreted by such customary and recognized standard of meaning.
- B. It is understood that except as otherwise stated in the Contract Documents, Contractor shall provide and pay for all permits, materials, labor, tools, equipment, water, light, power, transportation, superintendence, temporary construction of every nature, and all other services and facilities of every nature necessary to execute, complete and deliver the Work.
- C. Contractor shall ask for clarification where details are not provided for any portion of the Work and for which the design intent cannot be ascertained.

1.3 SCOPE OF WORK

- A. General Requirements
 1. Work not identified in the detailed scope of work or bid item description, but nevertheless required, shall be performed as specified, shown or intended.
 2. Refer to Sections 01 14 17 Coordination with Owner's Operations and 01 14 19 Use of Site for limitations while performing the Work at the site.
 3. Refer to Section 01 31 13 Project Coordination (Single Prime) for coordination of the Work.
 4. Refer to Sections 01 41 05 Regulatory Requirements, 01 61 00 Common Product Requirements, and 01 71 34 Protection of the Work and Property for addition requirements related to the Work.
- B. The Work includes the following detailed scope:

1. Contractor to make repairs to the cathodic protection system's broken rectifier header cables at Commerce Drive Pumping Station in Erie County Sewer District No. 6. Contractor shall perform cathodic inspection services and submit a written report for the Commerce Drive Pumping Station.
2. Contractor shall perform cathodic inspection services and submit a written report for the five pumping stations identified in Erie County Sewer District No. 2.
3. Contractor shall perform cathodic inspection services and submit a written report for the three pumping stations identified in Erie County Sewer District No. 4.
4. Contractor shall perform cathodic inspection services and submit a written report for the one pumping station identified in Erie County Sewer District No. 6.
5. Contractor shall perform stray current interference testing at three or more locations along the 18 Mile Pumping Station forcemain in Erie County Sewer District No. 2.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.1 GENERAL

- A. Contractor shall furnish all labor, equipment and materials and shall perform all of the Work as shown in the Contract Documents and as directed by Engineer, tested in place and ready for use, in accordance with the obvious and expressed intent of the Contract to secure a complete installation. In general, the Work to be performed under each pay item is described in the Sections 01 20 13 Lump Sum Measurement and 01 20 16 Lump Sum Payment.
- B. The quality of workmanship and materials entering into the Work shall conform to the requirements of Section 01 45 05 Quality Control and the pertinent sections, clauses, paragraphs and sentences provided in the Contract Documents, whether or not direct reference to such occurs in this Summary of Work.

END OF SECTION

SECTION 01 14 17
COORDINATION WITH OWNER'S OPERATIONS

PART 1 GENERAL

1.4 SUMMARY

- A. This section includes considerations to be taken when working on the Site containing Owner's operations. Owner's operations are critical to maintaining public health. Coordination is essential to minimize impact on those operations.
- B. Related Sections:
 - 1. Section 01 11 13 –Work Covered by Contract Documents
 - 2. Section 01 73 24 – Connections to Existing Facilities

- C. Refer to Section 01 11 13 Work Covered by Contract Documents / Section 01 12 13 Summary of Contracts for the general listing of the Work to be coordinated.

1.5 GENERAL

- A. The level of the coordination required is dependent on the type of operations involved. Types of operations are as follows:
 - 1. Essential operations are operations performed by Owner that must be maintained throughout the entire period of construction or take priority over the Work in the Contract Documents. Limited interruption can be allowed for these operations.
 - 2. Primary operations are operations performed by Owner at this site. Plans for interruptions to these operations are included in the design of this Project.
 - 3. Intermittent operations are operations performed by Owner that occur at intervals and that may become essential under certain conditions.
- B. Interruptions to Owner's Operations
 - 1. Interruptions to operations or services must be scheduled and approved in advance. At least three working days of written notice is required prior to work.
 - 2. Owner's representative must be present for all work performed during any interruptions to services.

1.6 OPERATIONS

- A. The following Essential Operations take place at the Site:
 - 1. Conveyance of wastewater.
- B. The following Primary Operations take place at the Site:
 - 1. Conveyance of wastewater.

1.7 SEPARATION

- A. Contractor must provide physical separation between the Work and Owner's existing operations to the greatest extent possible.
- B. Where separation is not possible, Contractor shall provide provisions for Owner's operations to continue as though there was a separation, unless otherwise specified.

1.8 OPERATION SCHEDULE

- A. Owner's operations are generally defined as wastewater transmission and treatment and the operations are continuous. The need for equipment and facilities will fluctuate based on the process loading.

1.9 LIMITATIONS

- A. Connections to existing facilities must be coordinated with Owner's current operations to ensure that no interruption of service occurs. Specific requirements and limitations are detailed in 01 73 24 Connections to Existing Facilities.

1.10 NOTIFICATIONS

- A. Contractor must notify Owner's representative, Engineer or Owner for any of the following events:
 - 1. Each time Contractor, or anyone performing work on behalf of Contractor, enters or leaves the Site.
 - 2. Any time that any quantity of wastewater is discharged or spilled outside of its containment system. Examples of a containment system include, without limitation , a pipe, manhole, tank, truck, or channel.
 - 3. Any time operation may be impacted by the Work.
- B. Owner's Representative, Engineer or Owner will notify Contractor:
 - 1. Of any operational changes that will delay the Work. Notice will be given as soon as possible.
 - 2. Of any forthcoming requests for partial use or occupancy.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 14 19 USE OF SITE

PART 1 GENERAL

1.11 SUMMARY

- A. This section includes considerations with respect to the Site.
- B. Related Sections:
 - 1. Section 01 11 13 – Work Covered by Contract Documents
 - 2. Section 01 14 17 – Coordination with Owner's Operations
- C. Refer to Section 01 11 13 Work Covered by Contract Documents / Section 01 12 13 Summary of Contracts for the general listing of the Work.

1.12 GENERAL

- A. Store apparatus, materials, supplies and equipment in a safe, orderly manner that does not interfere with the Work or normal operations of the surrounding areas. Storage shall not block access in areas of egress.
- B. Owner performs essential operations at the Site and will be occupying the Site throughout the entirety of the project. Refer to Section 01 14 17 – Coordination with Owner's Operations for detailed information.
- C. Store materials that are subject to injury by exposure to weather, theft, breakage or otherwise. Limited storage may be available on the Site. Owner will not be responsible for any items stored in their facilities.
- D. Contractor shall follow all rules and requirements specific to the Site, including but not limited to, obeying all signage and following site safety policies.

1.13 LIMITATIONS

- A. Use of the Site by Contractor is restricted to operations required to complete the Work included in the Contract Documents.
- B. Facilities, buildings, equipment, tools or other that is not property of Contractor shall not be used without written consent.
- C. Contractor shall not dispose of any refuse resulting from the Work, including items demolished at the Site, in refuse containers contained on the Site unless those containers are placed there by Contractor or Contractor has received written authorization for use.
- D. Contractor may be prohibited from entering certain areas of the Site. Some areas may only be prohibited under certain conditions. Refer to Section 01 14 17 Coordination with Owners Operations for detailed information.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

**SECTION 01 14 33
WORK IN RIGHTS-OF-WAY**

PART 1 GENERAL

1.14 SUMMARY

- A. This section includes considerations with respect to working along a roadway in the rights-of-way.
- B. Related Sections:
 - 1. Section 01 11 13 – Work Covered by Contract Documents
 - 2. Section 01 14 17 – Coordination with Owner's Operations
 - 3. Section 01 14 19 – Use of Site
 - 4. Section 01 41 05 – Regulatory Requirements
- C. Refer to Section 01 11 13 Work Covered by Contract Documents / Section 01 12 13 Summary of Contracts for the general description of items of work along a roadway.

1.15 GENERAL

- A. Work along and under roads, railroads, waterways, airports, or similar locations, shall be completed in accordance with the Contract Documents, and in compliance with permits for the Work issued by the agency of jurisdiction. Permits shall be obtained by Contractor in compliance with General Conditions Article 7.09 and Section 01 41 05 Regulatory Requirements.
- B. The cost of any temporary structures or facilities required by the agency having jurisdiction, shall be paid for by Contractor. The cost of all additional insurance required by the permit shall be provided by Contractor. Contractor shall determine the general requirements of permits of controlling agencies prior to submitting a bid.
- C. Any special backfill required and pavement replacement shall be paid under the

appropriate Bid Form items, unless otherwise indicated. All associated materials, equipment, products or other necessary items shall be included in the Contract Price.

- D. The costs of flagging, protective personnel and engineering inspection provided by another agency, including but not limited to those required by a railway, airport, or highway department, shall be at the expense of Contractor.
- E. Refer to Section 01 14 19 Use of Site for information on easements and other requirements.
- F. Owner may need to perform essential operations in the rights-of-way while the Work is being performed. Refer to Section 01 14 17 – Coordination with Owner's Operations for additional information.

1.16 LIMITATIONS

- A. Contractor equipment shall not be placed or stored in rights-of-way other than where the Work is actively taking place.
- B. All excavations in rights-of-way shall be backfilled in the same work day. When that is not possible, proper safeguards shall be put into place to protect the public.
- C. Environmental permits may be required when dewatering is necessary or when the Work is in close proximity to a water body. Refer to Section 01 41 05 Regulatory Requirements for additional information.
- D.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 20 13
LUMP SUM MEASUREMENT

PART I – GENERAL

1.17 SUMMARY

- A. This section includes each lump sum item, the scope of work intended to be included in that item, and the way in which work will be measured. The scope of work in this section is intended to provide a general description of work for differentiation.
- B. The Contract Documents include detailed descriptions of the Work, intended to cooperate and provide for, and include everything necessary for, the proper and complete orderly execution and finishing of the Work.
- C. Related Sections:
 - 1. Section 01 11 13 – Work Covered by Contract Documents
 - 2. Section 01 20 16 – Lump Sum Payment
 - 3. Section 01 21 16 – Contingency Allowances
 - 4. Section 01 26 10 – Contract Modification Procedures
 - 5. Section 01 29 73 – Schedule of Values
- D. Where separate items identified in this section are not separated on the Bid Form form, Contractor shall separate these items on their payment schedule, submitted in accordance with Section 01 29 73 Schedule of Values so measurement can be appropriately identified for payment.
- E. Refer to Section 01 20 16 Lump Sum Payment for information and requirements for the payment of the measured item(s).

1.18 GENERAL CONSTRUCTION

A. Scope of Work

- 1. This item includes all labor, materials, tools and equipment required to complete the Work contained in the Contract Documents that is not listed under any other item in this section. Section 01 11 13 Work Covered by Contract Documents contains a general listing of the Work included in the Contract Documents.
- 2. This item includes administration of the project for items including, without limitation, bonds, insurance, project management, schedules, coordination, photographs, project meetings, temporary utilities, field offices, temporary structures and facilities, temporary equipment, health and safety, regulatory requirements, stormwater protection, dust control, testing, inspections, waste management, and project closeout that is not otherwise included in or associated with any other item.

B. Measurement

1. Measurement of work completed under this item shall be the relative percentage of work included in this item, based on the percentage of each major work component as indicated on the Schedule of Values. Refer to Section 01 29 73 Schedule of Values for detailed information and requirements regarding the Schedule of Values. The percentage completed shall be determined by Engineer.
2. Measurement of work completed under this item may include equipment or materials received and inspected by Engineer prior to installation, if recommended by Engineer and accepted by Owner. If equipment or materials are included in this measurement, those equipment or materials must be maintained in the same condition as when inspected.

1.19 CONTINGENCY ALLOWANCE

A. Scope of Work

1. Contractor shall furnish all labor, materials, equipment, products and other items required to perform unspecified additional work as determined in the field and authorized in writing by Engineer. Work performed under this item is to be determined based on approved Contractor proposals. See Section 01 21 16 Contingency Allowances for detailed information.

B. Measurement

1. Measurement shall be the actual work performed under this item, recommended for payment by Engineer and approved by Owner.
2. Measurement for approved unit price work under this item shall be the number of units completed, as determined by Engineer.
3. Measurement for approved lump sum work under this item is the percentage of the total work completed, as determined by Engineer.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 20 16

LUMP SUM PAYMENT

PART I – GENERAL

1.20 SUMMARY

- A. This section includes how payment will be determined based on the measurement for each lump sum pay item. The scope of work in this section is intended to provide a general description of work for payment differentiation.
- B. The Contract Documents include detailed descriptions of the Work, intended to cooperate and provide for, and include everything necessary for, the proper and complete orderly execution and finishing of the Work.
- C. Related Sections:
 - 1. Section 01 11 13 – Work Covered by Contract Documents
 - 2. Section 01 20 13 – Lump Sum Measurement
 - 3. Section 01 21 16 – Contingency Allowances
 - 4. Section 01 29 73 – Schedule of Values
 - 5. Section 01 29 76 – Progress Payment Procedures
- D. Refer to Section 01 29 76 Progress Payment Procedures for information and requirements for the payment process.
- E. Retention for each Bid Form item shall be eligible for release when all the Work contained in the Contract Documents is substantially complete, regardless of the completion of any individual Bid Form item.
- F. Final payment for each Bid Form item shall be for the remainder of the lump sum price stated in the proposal unless modifications have been made to the Contract or set-offs have been imposed. Refer to Section 01 26 10 Contract Modification Procedures and GCC Article 14 for information on what modifications may impact final payment.

1.21 GENERAL CONSTRUCTION

A. Payment

- 1. Payment under this Bid Form item shall be a percentage of the lump sum price measured, less any deductions.
- 2. If Engineer determines any work to be defective, deductions may be taken from the payment in accordance with GCC Article 14.03-F.

1.22 CONTINGENCY ALLOWANCE

A. Payment

- 1. Payment under this Bid Form item shall be based on the measured work, completed

and approved for payment.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION SECTION 01 21 16 CONTINGENCY ALLOWANCES

PART 1 GENERAL

1.23 SUMMARY

- A. This section includes considerations related to contingent items of work added after the Contract is executed and payment of contingent items.
- B. Related Sections:
 - 1. Section 01 20 13 – Lump Sum Measurement
 - 2. Section 01 20 16 – Lump Sum Payment
 - 3. Section 01 33 10 – Submittal Procedures

1.24 GENERAL

- A. Refer to Sections 01 20 13 Lump Sum Measurement, and 01 20 16 Lump Sum Payment, for the procedures for measurement of the Work and payment limits.
- B. Contractor is not entitled to the sums included under contingency allowance items unless work is approved for these items. Work will not be added to the Contract for the sole purpose of allowing full payment to Contractor of the amounts included in these allowances.
- C. Any work performed under a contingency allowance item must receive written acceptance and approval before proceeding. Any work performed without written approval will be at Contractor's risk.
- D. Engineer may recommend and Owner may allow payment before the final change order. Otherwise additional work will be accounted for in the final change order as stipulated in GC Article 13.02-D.

- E. All work performed under contingency allowances shall be included on the red-lined drawings upon completion of the Work.

1.25 SUBMITTALS

- A. Contractor shall submit, for approval, all items required to perform the proposed work, regardless if the item(s) was listed in original Bid Form. Refer to Section 01 33 10 Submittal Procedures for detailed information on submittals.
- B. If work includes an item already submitted and approved, the proposal shall indicate the item and identify the approved submittal.
- C. Contractor shall submit supporting documentation for any estimates related to allowances. This documentation includes, without limitation, estimates from Sub-Contractors, hour and cost worksheets, labor or equipment cost estimate sources, material cost sources, diagrams, or field measurements.

1.26 LUMP SUM ALLOWANCES

- A. Engineer will request a proposal for work to be completed under the Contingency Allowance.
- B. Any proposal received from Contractor must include pricing that is in accordance with unit prices or estimates already provided. Pricing must be industry standard for the location, and must be supported in submittals.
- C. Contingent items of work can only be performed after Engineer's written recommendation and Owner's written acceptance of the proposal. Owner must approve payment amount in writing.
- D. The project schedule will be updated to reflect any work added under the Contingency Allowance, upon acceptance of work.
- E. Contingency Allowance will be paid in accordance with Section 01 20 16 Lump Sum Payment.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 25 13
PRODUCT SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.27 SUMMARY

- A. This section includes the procedure for proposing alternate or substitute products without impacting the design intent of the Work. This Section supplements GC Article 7.06.
- B. Substitutions can only be requested after the Notice of Award. Contractor must base their Bid on specified materials, equipment, processes and products.
- C. Related Sections:
 - 1. Section 01 33 10 – Submittal Procedures

1.28 GENERAL

- A. Substitutions will not be considered when submitted as a shop drawing without indication that the product is a substitution, when substitution is requested directly by a Subcontractor or supplier, or when acceptance will require substantial revision of Contract Documents. Substitutions shall be formally requested by following the procedures in item 1.4 Substitution Procedure.
- B. Engineer and Owner reserve the right to require substitute items to comply in color and pattern with specified items, if necessary to secure design intent.
- C. Contractor shall have the burden of proving the substitutions comply with the design intent, at his own expense, to the satisfaction of Engineer and Owner.
- D. Contractor shall make no claim for an extension of the time or for damages by reason of the time taken by Engineer in considering a substitution proposed by the Contractor, or by reason of the failure of Engineer to review a substitution proposed by Contractor.
- E. Where the approval of a substitution requires revision or redesign of any part of the Work, all such revision and redesign, and all new drawings, and details required therefore, shall be subject to the review of Engineer and shall be provided by Contractor at his own cost and expense.
- F. Engineer may recommend rejection or acceptance of a substitution, based on their knowledge and experience, without evaluation.
- G. Contractor can withdraw a proposal for substitution at any time. Contractor may still be responsible for Engineer's fees in evaluating the substitution.

1.29 CONTRACTOR REPRESENTATION

- A. The request for substitution constitutes a representation that Contractor:
1. Has investigated proposed product and determined that meets design intent and has comparable longevity, or is superior in all respects to specified product.
 2. Shall provide, as a minimum, the same warranty for the substitution that would be supplied for the specified product.
 3. Shall coordinate installation of an accepted substitute, making such changes as may be required to the Work to accommodate the substitution, in every respect.
 4. Certifies that the cost data presented is complete and includes all related costs. Contractor certifies that any savings realized by the substitution is presented in the substitution proposal.
 5. Waives claims for additional costs related to the substitution that may later become apparent.
 6. Contractor has determined the existence of any patents, trademarks, or copyrights associated with the substitution and included any fees, royalties or claims associated with such.
 - Contractor is responsible to provide a suitable written agreement with the patentee, patent owner, copyright owner, or trademark owner which shall provide that there will be no future or continuing royalties or payments by Contractor or Owner.
 - Contractor shall pay all applicable royalties and license fees.
 - Contractor and surety shall indemnify Owner and Engineer from all fees, royalties and claims or suits in connection with any infringement or alleged infringement of patent rights, copyrights, or trademark rights.
- B. By submitting the substitution, Contractor is agreeing to incur all costs associated with such a substitution.
- C. Contractor will not order or install any substitutions without written acceptance from Engineer or Owner. Substitute products ordered or installed without written acceptance will be at Contractor's risk. Contractor is liable for all costs associated with replacement of such products if not accepted.

1.30 SUBSTITUTION PROCEDURE

- A. Any time after the Notice of Award has been issued, but before evaluation will impact the Progress Schedule, Engineer will consider written requests for substitutions of materials, equipment, processes, products, or other items.
- B. Contractor shall submit separate requests for each substitution. Document each request with data substantiating compliance and compatibility of proposed substitution with requirements of the Contract Documents.
- C. Contractor shall identify product by Specification's section and article numbers and provide the following information:
 - 1. Manufacturer's name, address, and phone number, trade name of product, and model or catalog number. List fabricators and suppliers as appropriate.
 - 2. All information as indicated in Section 01 33 10 Submittal Procedures.
 - 3. An itemized comparison of proposed substitution with specified product, listing variations, and reference to specification's section and article numbers.
 - 4. A quality and performance comparison, positive and negative, between proposed substitution and the specified product. Differences shall be clearly listed, highlighted or otherwise emphasized. Differences include, but are not limited to, operational type, weight, thickness, size, materials of construction, strength, elasticity, or method of installation. Samples must be provided where applicable.
 - 5. Design Life, defined as the time life span of equipment or material before failure occurs or before the cost of maintenance justifies replacement, as determined by an Engineer, and data and information that can be used to support or determine Design Life.
 - 6. Service Life, defined as the time life span of equipment or material before failure occurs or before the cost of maintenance justifies replacement, as determined by Engineer, and data, references, and information that can be used to support or determine Service Life.
 - 7. Expected maintenance, replaceable components, and cost of replacement components. Include years that company has been in business, location of replacement parts center, location of manufacturer's service center, typical time for receipt of parts, shipment cost to project location, and manufacturer's representative information.
 - 8. Cost data comparing proposed substitution with specified product, and the amount of net change to the Contract Price. Savings in cost resulting from such substitutions proposed to be passed onto Owner shall be identified.

9. Effect of substitution on progress schedule and Contract Time and changes required in other work or products, including impacts on other Contracts.
 10. Guarantee attesting to the 90-day performance test as specified in item 3.2 Performance Test. The guarantee shall be signed by the Contractor.
- D. Engineer may make inquiries into Contractor's expertise, authorization and training regarding installation of the product, equipment or material. Contractor shall provide all information for such inquiries and authorize the Engineer to access such information.
 - E. If no change to Contract Price and Contract Time is required, Engineer will indicate approval or rejection of the requested substitution(s) in writing.
 - F. If an increase in Contract Price or Contract Time is required, Engineer will make a recommendation and Owner's written approval or disapproval will be required.

1.31 OWNER APPROVAL

- A. Owner approval is required when the substitution will result in an increase Contract Price or Contract Time. The substitution will then be considered a Request for Change submitted by the Contractor for purposes of the Contract.
- B. If Owner's approval is required, Owner will make the final determination, in writing, whether to approve or reject the substitution(s).
- C. If the substitution is approved, the Work will be changed accordingly and a Change Order will be required to change the Contract Price or Contract Time.
- D. If the substitution is rejected, Contractor shall furnish products, materials, processed and equipment specified in the Contract Documents. Contractor may still be required to pay Engineer's expenses.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.1 ENGINEER INSPECTION

- A. Contractor shall notify Engineer as soon as approved substitute products, materials, processes or equipment are available for inspection. Engineer shall inspect all substitutes for conformance with substitution approvals, prior to installation.

- B. If Contractor fails to notify Engineer that materials, equipment or products are approved substitutes prior to installation, Contractor will be responsible making all substitution components available for inspection. Actions required to make products available may include, without limitation, excavation, disassembly, removal, disconnection, raising, lowering, or removal of other placed materials such as concrete.
- C. If Engineer finds that substitution is not of the type or quality of what was represented or approved, Contractor is responsible for providing the approved substitution, making other adjustments stipulated by Engineer for substitution to be acceptable for use in the Work, or providing the specified equipment, materials, processes or products. Contractor shall credit the Owner with any additional Engineering costs due to changes after approval.

3.2 PERFORMANCE TEST

- A. Substitutes will be subjected to a 90 day performance test. The test will begin at the acceptance of the equipment or beneficial occupancy of the facility.
- B. If the substitution should fail or not perform up to the design standards, Owner can order its replacement at no additional cost to the Owner. Upon receipt of such a request, the Contractor will immediately replace said substitute with the materials, equipment, process or product specified in the Contract Documents.

END OF SECTION
SECTION 01 26 10
CONTRACT MODIFICATION PROCEDURES

PART 1 GENERAL

1.32 SUMMARY

- A. This section includes the procedures for proposing, initiating, or authorizing contemplated changes to the Contract.
- B. Related Sections:
 - 1. Section 01 21 16 – Contingency Allowances

1.33 DEFINITIONS

- A. Request for Proposal (RFP): Written or verbal request by Engineer or Owner to Contractor that asks for information pertinent to Owner's contemplated changes to the Work.
- B. Request for Information (RFI): Contractor request for clarification on design

documents that will not necessarily create a change to the Contract.

- C. Request for Change (RFC): Written or verbal inquiry to Engineer by Contractor that asks for potential changes to the Work.

1.34 GENERAL

- A. RFPs consist of proposed changes to the Work that may or may not be performed. Formal changes to the Work are made through Work Change Directives, as defined in GC Article 1.01-A.50, or Field Orders, as defined in GC Article 1.01-A.23.
- B. RFIs do not include changes to the Work. If Contractor believes the information or clarification received from Engineer in response to an RFI constitutes a change to the Work, a Change Proposal, as defined by GC Article 1.01-A.9, should be submitted with the resulting change clearly defined.
- C. RFCs are made for potential changes to the Work that are suggestions or recommendations by Contractor that is different from the design of the Engineer. Any addition or loss of cost or time must be identified and, if the RFC is accepted, a Change Proposal must be submitted. Change Proposals will not be considered that include costs listed in GC Article 13.01-C.
- D. An RFP or RFC can be withdrawn at any time without penalty.
- E. Engineer can direct or request changes to technical components of the Work that do not require modification of the Contract. All changes that will require modification of the Contract must be approved or accepted by Owner.

1.35 ENGINEER PROPOSED CHANGES

- A. Engineer or Owner may issue an RFP to Contractor to evaluate the impact of a potential change on the Work, Contract Time and Contract Price. Such a request is not an authorization to perform such work or to stop work in progress unless the request explicitly states such intent.
- B. Engineer or Owner will supply the following information related to the RFP:
 - 1. Description of the proposed change, products or processes required in the change and location of the change.
 - 2. Supplementary or revised Contract Drawings and Specifications.
 - 3. Projected time span for making the change.
- C. Upon receipt of the RFP from Engineer or Owner, Contractor shall provide a proposal within 7 days, or another timeframe outlined in the RFP. The proposal

shall contain the following information:

1. Impacts the proposed change will have on project schedule with emphasis on the impacts on the schedule's critical path.
 2. Time frame required to make the requested changes, including if overtime will be required to make the change.
 3. Impacts, if any, the proposed changes will have the Contract Price.
 4. Additional materials, equipment, labor, processes, products or other items that would be required to make the requested change.
 5. Other impacts that the change may have on the Work that has not been indicated in the RFP.
- D. After receiving the Contractor proposal, Engineer will do one or more of the following, within 7 days:
1. Notify Contractor if the change will not be implemented.
 2. Issue a Field Order instituting all or part of the change.
 3. Request a Work Change Directive from Owner instituting all or part of the change.

1.36 CONTRACTOR PROPOSED CHANGES

- A. Contractor may submit an RFC to Engineer to request evaluation of a potential addition to, subtraction from, or change in the Work.
- B. Contractor will supply the following information related to the RFC:
1. Products and processes involved in the change. References to Contract Documents, such as where work is shown on the Drawings and detailed in the Specifications, is required.
 2. Description of materials, equipment, labor, processes, products or other items that would be required to make the requested change.
 3. Projected time frame for making the change and impacts the proposed change will have on project schedule, including impacts on the schedule's critical path and if overtime will be required to make the change.
 4. Impacts, if any, the proposed changes will have the Contract Price.
 5. Impacts that the change will have on Owner operations or other Contracts.
- C. Upon receipt of the RFC from Contractor, Engineer will review the proposal to determine if the change would be a substitution. If so, Contractor must follow the requirements and procedures in Section 01 25 13 Product Substitution Procedures.
- D. Engineer will determine if all or part of the RFC will require Owner approval. If Owner approval is required, Engineer acceptance or rejection will be provided in

the allotted timeframe. Owner approval will require additional time.

- E. Engineer will have up to 7 days to respond to the RFC. Contractor may request a response in a shorter timeframe and Engineer may respond in that timeframe, if possible. Engineer response will indicate acceptance or rejection of the request.
- F. Engineer may defer a decision. Acceptance or rejection will be deferred if the change is dependent upon the result of some portion of the Work that has not yet been performed. Contractor can withdraw their request instead of accept deference.
- G. If Engineer rejects the change:
 - 1. It will have no impact on the Work.
 - 2. The reason for rejection will be given.
 - 3. The decision will be final.
- H. If Engineer accepts the change, Engineer will do one or more of the following:
 - 1. Notify Contractor if any portions of the change will be modified.
 - 2. Issue a Field Order instituting all or part of the change.
 - 3. Request a Work Change Directive from Owner instituting all or part of the change.
 - 4. Request Contractor submit a Change Proposal for all or part of the change.

1.37 FIELD ORDERS

- A. Engineer will issue Field Orders in accordance with GC Article 11.04. Field Orders, by definition, do not change the Contract Price or Contract Time and may require modifications to the Contract.

1.38 WORK CHANGE DIRECTIVES

- A. Engineer may recommend changes in the Work to Owner or Owner may require addition, deletion or changes to the Work. Owner may issue a Work Change Directive in accordance with GC Article 11.03.
- B. Work Change Directives will include the following:
 - 1. Description of the proposed change, materials, equipment, labor, processes, products or other items required in the change.
 - 2. Location of the change.
 - 3. Supplementary or revised Contract Drawings and Specifications.
 - 4. Projected time span for making the change, expected impacts the change will have on project schedule, and expected time required to make the requested

change, including if overtime will be required.

5. The estimate changes, if any, to the Contract Price.

- C. Whenever possible, changes to Contract Price and Contract Time will be negotiated between Owner and Contractor prior to, or immediately following, the issuance of the Work Change Directive.
- D. Work Change Directives that change Contract Price and Contract Time will be included in a subsequent Change Order.

1.39 CHANGE PROPOSALS

- A. Contractor may submit a Change Proposal related to changes in the Work in accordance with GC Article 11.09.
- B. Whenever possible, changes to Contract Price and Contract Time shall be negotiated between Owner and Contractor prior to the submittal of a Change Proposal.
- C. Change Proposals requesting a change to Contract Price and Contract Time will be submitted on Contractor company letterhead, with the total changes clearly indicated.
- D. Changes to Contract Time must be submitted prior to the end of Contract Time.
- E. Approved Change Proposals that change the Contract Price or Contract Time will be included on a subsequent Change Order.

1.40 CHANGE ORDERS

- A. Owner may authorize changes in work in accordance with GC Article 11.05.
- B. If a Work Change Directive or Change Proposal increases or decreases the Contract Price or Contract Time, an equitable adjustment will be authorized by Change Order in accordance with GC Article 11.02.
- C. A Change Order may contain multiple changes, directives, or proposals.
- D. Payment for changes in Contract Price may be taken out of a contingency allowance instead of issuing a Change Order. See Section 01 21 16 Contingency Allowances for information on contingency allowances. Such payments will be summarized in the final Change Order to close the Contract.
- E. Depending on the degree of impact and timing of the Work Change Directive or Change Proposal, changes in Contract Time and Contract Price may be included

in the final Change Order to close the Contract rather than an executed Change Order during the Contract.

- F. Contractor may request the execution of a Change Order during the Contract that includes a change in Contract Price but does not involve payment from a contingency allowance.
- G. Change Orders will be executed using the following procedure:
 - 1. If required, Engineer will recommend the change, in writing, to Owner and provide all supporting documentation to Owner and Contractor to identify and explain the change.
 - 2. Owner will approve the change in Contract Price and Contract Time, in writing, and provide Change Order forms.
 - 3. Contractor shall execute Change Order forms in triplicate, signifying Contractor acceptance of the change.
 - 4. Engineer will sign all Change Order forms and return to Owner.
 - 5. Owner will execute Change Order forms in triplicate and return one original copy to each interested party.
- H. Change Orders may require additional Owner approvals, including, without limitation, other County Departments and the Erie County Legislature, depending on the extent of the change. A timeframe for Owner execution of a Change Order cannot be guaranteed.
- I. Payment under the Change Order will not be available until the Change Order is fully executed.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 29 73 SCHEDULE OF VALUES

PART 1 GENERAL

1.41 SUMMARY

- A. This section includes the procedures for preparing and submitting the Schedule of Values.
- B. Related Sections:
 - 1. Section 01 20 13 – Lump Sum Measurement
 - 2. Section 01 20 16 – Lump Sum Payment
 - 3. Section 01 29 76 – Progress Payment Procedures

1.42 GENERAL

- A. The Schedule of Values will be the basis for measurement and payment as detailed in Section 01 20 13 Lump Sum Measurement, and Section 01 20 16 Lump Sum Payment.
- B. The Schedule of Values will be submitted with each request for progress payment indicating completed work as detailed in Section 01 29 76 Progress Payment Procedures.
- C. If any item of work listed on the Schedule of Values is removed from the Work, Owner will be credited the entire amount listed. The amount of credit may be reduced by any amounts already paid to Contractor, if work has been performed and approved on the item prior to removal from the Contract.

1.43 FORMAT

- A. Schedule shall follow AIA Document G703 – Continuation Sheet for Application and Certificate for Payment or other mutually agreed upon standard format.
- B. List component parts and identify each line item by number and title of major Specifications Section.
- C. All bid items must be listed separately, including contingency allowance items.

1.44 CONTENT

- A. Identify the Project by the Erie County Sewer District (ECSD) Number and Contract Number assigned by Owner.
- B. List installed value of each major item of the Work and each subcontracted item of Work as separate line items, rounding off values to nearest dollar.
- C. List contingency allowance and other allowances with the specified monetary amounts for each allowance in separate divisions. List approved proposals as

separate lines under the appropriate contingency allowance.

- D. Contractor may use separate lines for bonds, insurance, temporary facilities and controls, superintendents, and mobilization. Each item shall include pro rata portion of overhead and profit.
- E. Break all major equipment costs into materials and labor at a minimum.

1.45 ACCEPTANCE

- A. Contractor is responsible for ensuring that the Schedule of Values is a reasonable allocation of the Contract Price.
- B. Engineer or Owner may request information to substantiate any line item. Contractor shall submit justification upon request.
- C. Engineer or Owner may request reallocation of prices on listed items.
- D. Acceptance of the Schedule of Values does not constitute approval for payment of any of the items listed.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 29 76 PROGRESS PAYMENT PROCEDURES

PART 1 GENERAL

1.1 SUMMARY

- A. This section includes the requirements associated with payments, and procedures for preparing and submitting applications for progress payments.
- B. Related Sections:

1. Section 01 20 13 – Lump Sum Measurement
2. Section 01 20 16 – Lump Sum Payment
3. Section 01 29 73 – Schedule of Values
4. Section 01 77 19 – Closeout Procedures

1.2 DEFINITIONS

- A. Basic Rate of Pay: The rate actually payable to the worker, which may be higher but not lower than the minimum wage set forth in the Prevailing Rate Schedule.
- B. Pencil Copy: A submittal from Contractor to Engineer containing, at a minimum, the accepted form of the Schedule Values with the proposed amount of work completed and equipment accepted that are available for payment in the pay period. Pencil Copy must include a summary of the total Contract amount in the application, retention to be withheld, and total payment requested.
- C. EEO Programs: Programs administered by the Erie County Office of Equal Employment Opportunity (EEO) that are included in the Contract. Programs include, but are not limited to, employment initiatives, minority-owned business enterprises (MBE) goals, women-owned business enterprises (WBE) goals, service-disabled veteran-owned business (SDVOB) goals, apprenticeship requirements, local law requirements, and executive order requirements.

1.3 GENERAL

- A. Measurement and payment of individual bid items are detailed in Section 01 20 13 Lump Sum Measurement, and Section 01 20 16 Lump Sum Payment. Measurement and payment under contingency allowances will only be for approved items, as described in those sections.
- B. Payment for lines that include labor, materials, equipment, processes, or products necessary for the duration of the Work, including but not limited to temporary facilities, temporary utilities, supervision or management, will be paid at a percentage to equal the overall percentage of the progress of the Work.
- C. In accordance with the Agreement, partial payments may be made for materials and equipment not incorporated in the Work if sufficient documentation is received to prove that the materials and equipment have been received by Contractor and Contractor has been invoiced or paid the supplier. Engineer may request additional documentation. Owner reserves the right to inspect, or have inspected on the Owner's behalf, any materials or equipment before payment is approved.
- D. If mobilization is included with other components of work, mobilization will be

paid the appropriate percentage of the progress of the other work.

- E. Work in excess of 8 hours per day or 40 hours per week must obtain dispensation and shall be compensated at a minimum of one and one-half (1 ½) times the Basic Rate of Pay for all hours worked in excess of 8 hours, on any one day, or in excess of forty hours in any one week. This shall not limit agreements to the contrary or mandatory overtime compensation in excess of those stipulated amounts. Such extra compensation shall not constitute a claim for additional compensation under this Contract.

1.4 PREVAILING RATE SCHEDULE

- A. All workers must be paid, at a minimum, the rate listed in the Prevailing Rate Schedule specific to this project. Refer to Section 00 73 43 Wage Rate Requirements for requirements.
- B. Employees cannot be paid apprentice rates unless they are individually registered in a program that is registered with the New York State Commissioner of Labor. An employee listed on a payroll as an apprentice who is not registered or is performing work outside the classification of work for which the apprentice is indentured, must be paid the prevailing journey worker's wage rate for the classification of work the employee is actually performing.
- C. Payment cannot be made for laborers, workers, or mechanics in the employ of Contractor or Subcontractor engaged in the performance of any public work project for more than 8 hours in any day or 40 hours in any week, unless a dispensation has been obtained. Contractor and Owner have to apply to the for a dispensation permitting workers to work additional hours prior to work being performed.
- D. The wages and supplements contained in the annual determination become effective July 1st whether or not the new determination has been received by Contractor. Care should be taken to review the rates for obvious errors. Any corrections should be brought to the DOL's attention immediately. It is the responsibility of Contractor to use the proper rates. Annual determinations will be corrected and posted to the DOL's website on the first business day of each month. Contractors are responsible for paying these updated rates as well, retroactive to July 1st.
- E. Contractor is responsible for any underpayments of prevailing wages or supplements by their Subcontractor.
- F. The Public Work Project notice must be posted at the beginning of the performance of the Work on each Site.

- G. Payroll records must be kept for three years from the Project's date of completion.

1.5 APPLICATION MATERIALS

- A. Owner has standard forms for payment application. A copy of the Schedule of Values indicating the completed work shall accompany each pay application form. Requirements for the Schedule of Values are detailed in Section 01 29 73 Schedule of Values. The Schedule of Values shall be in the format accepted in the initial submittal.
- B. Updated information for each of the applicable EEO Programs shall be submitted. Forms shall be submitted as indicated the individual sections pertaining to these programs. Requirements may include electronic submissions associated with an applicable EEO Program.
- C. Payrolls certifying compliance with the Prevailing Rate Schedule shall be submitted with each payment application in accordance with Section 00 73 43 Wage Rate Requirements. Subcontractors are required to submit paper copy certified payrolls for only the time spent on the project. Electronic payroll submissions may require negative reports from Subcontractors for times when no actual work is being performed.
- D. Insurance certificates must be current for payment to be authorized. Any updated insurance certificates shall be submitted to ensure payment.

1.6 PROCEDURE

- A. Contractor shall submit the Pencil Copy to Engineer. Owner must be notified that a pencil copy is submitted.
- B. Engineer will request changes to the Pencil Copy or will recommend payment as submitted. Engineer may ask for supporting documentation for items for which payment is requested.
- C. Engineer will notify both Contractor and Owner of recommendations in accordance with GC Article 15.01-C.
- D. If Owner agrees, Owner will send appropriate forms to Contractor.
- E. Contractor will submit appropriate forms for payment application approval and required application materials. Contractor will send forms to Engineer for approval.
- F. Engineer will indicate their approval and send forms to Owner.

- G. Contractor will send other required application materials directly to Owner.
- H. Once all application materials are received and reviewed, Owner will process payment.

1.7 RETENTION

- A. The amount retained in each pay request shall be as outlined in the Agreement.
- B. Retention shall be eligible for release when all the Work contained in the Contract Documents is complete, regardless of the completion of any individual bid item.
- C. When requesting a reduction of retainage, Contractor will provide Owner with a letter of consent from his surety company.
- D. Refer to Section 01 77 19 Closeout Procedures for information on the requirements for final payment of retention.

1.8 WITHHOLDING PAYMENT

- A. Owner may withhold from Contractor payments according to GC Article 15.01-E.
- B. When a complaint is filed with the Commissioner of Labor alleging the failure of Contractor or subcontractor to pay or provide the wages or supplements in the Prevailing Rate Schedule, or when the Commissioner of Labor believes that unpaid wages or supplements may be due, payments on the Contract shall be withheld from Contractor in a sufficient amount to satisfy the alleged unpaid wages and supplements, including interest and civil penalty, pending a final determination. These amounts will be in addition to the percentages to be retained by Owner pursuant to other provisions of this Contract and other withholdings.

1.9 CONTRACTOR PAYMENTS

- A. Contractor shall pay for all transportation and utility services not later than the 20th day of the calendar month following that in which such services are rendered.
- B. Contractor shall pay for all materials and equipment which are delivered to and properly stored at the Site, or in an approved warehouse, to the extent of 90 percent thereof, not later than the 15th day following each payment to Contractor and the balance of the cost thereof not later than the 15th day following the completion of that part of the Work in or on which such materials and equipment are incorporated or used.
- C. Contractor shall pay each Subcontractor, not later than the 7th day following

payment to Contractor, the respective amounts allowed Contractor on account of work performed, to the extent of each Subcontractor's interest.

1.10 FINAL PAYMENT

- A. Refer to Section 01 77 19 Closeout Procedures for information on the requirements and procedures for final payment.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 31 13 PROJECT COORDINATION (SINGLE PRIME)

PART 1 GENERAL

1.46 SUMMARY

- A. This section includes the requirements related to coordination of the Work when a single Contract is awarded.
- B. Related Sections:
 - 1. Section 01 14 17 – Coordination with Owner's Operations
 - 2. Section 01 32 16 – Construction Progress Schedule
 - 3. Section 01 41 05 – Regulatory Requirements

1.47 GENERAL

- A. Refer to Section 01 14 17 Coordination with Owner's Operations for additional coordination requirements.
- B. Communicate any special procedures required for coordination to Engineer and Owner.

- C. No Contractor shall delegate any administrative or coordination responsibilities to any Subcontractor. Coordinate work of Subcontractors to minimize interference with the progress and performance of the Work.
- D. To ensure the proper execution of subsequent work, Contractor shall measure work already in place, and shall at once report to Engineer any discrepancy between the executed work and the Drawings.

1.48 SCHEDULING

- A. Contractor shall coordinate operations included in various sections of the Contract Documents to assure efficient and orderly installation of each part of the Work according to the Progress Schedule. Refer to Section 01 32 16 Construction Progress Schedule for schedule requirements.
- B. Coordinate delivery and processing of submittals, and installation, relocation, and removal of temporary facilities so as not to impede progress of the Work.
- C. Coordinate the Work operations included under related sections of the Contract Documents that depend on each other for proper installation, connection, and operation, including but not limited to:
 - 1. Scheduling operations in sequence where installation of one part of the Work depends on installation of other components, before or after its own.
 - 2. Coordinate installation of different components to assure maximum accessibility for required maintenance, service, and repair.
 - 3. Provide provisions to accommodate items scheduled for later installation.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.3 INSPECTIONS

- A. Do not obstruct spaces and installations that are required to be clear by applicable Code Requirements.
- B. Coordinate inspections by Engineer of any facilities that will be inaccessible as work progresses. Do not cover any piping, wiring, ducts and other installations until it has been inspected and approved.

- C. Coordinate any necessary inspections by outside agencies that are required for permits or certifications. Refer to Section 01 41 05 Regulatory Requirements for information related to regulatory permits and certifications.

END OF SECTION

**SECTION 01 31 19.13
PRE-CONSTRUCTION MEETING**

PART 1 GENERAL

1.49 SUMMARY

- A. This section includes the requirements for the meeting between Owner, Engineer and Contractor prior to start of the Work.

B. Related Sections:

1. Section 01 14 17 – Coordination with Owner's Operations
2. Section 01 14 19 – Use of Site
3. Section 01 26 10 – Contract Modification Procedures
4. Section 01 29 76 – Progress Payment Procedures
5. Section 01 31 19.23 – Progress Meetings
6. Section 01 32 16 – Construction Progress Schedule
7. Section 01 32 33 – Photographic Documentation
8. Section 01 33 10 – Submittal Procedures
9. Section 01 35 23 – Owner Safety Requirements
10. Section 01 35 28 – Contractor's Health and Safety Plan
11. Section 01 41 05 – Regulatory Requirements
12. Section 01 45 33 – Code-Required Special Inspections and Procedures
13. Section 01 52 16 – First Aid Facilities
14. Section 01 52 19 – Sanitary Facilities
15. Section 01 55 10 – Vehicular Access and Parking
16. Section 01 65 00 – Product Delivery Requirements
17. Section 01 66 00 – Product Storage and Handling Requirements
18. Section 01 71 34 – Protection of the Work and Property
19. Section 01 74 10 – Cleaning and Waste Management
20. Section 01 78 39 – Project Record Documents

1.50 SCHEDULING

- A. The pre-construction meeting will be held at mutually agreed time between the Notice of Award and Notice to Proceed, or after Notice to Proceed but before on-site work is performed, as applicable. Representatives from Owner, Engineer, and Contractor must be present. Owner, Engineer or Contractor may invite others that are involved in the construction or administration of the Work.

- B. Contractor project manager must attend this meeting. Contractor superintendent / foreman should attend this meeting if they have been assigned prior to the meeting. Subcontractor project managers/superintendents should attend this meeting.
- C. Engineer will conduct the meeting, keep the minutes, and distribute the minutes to all persons in attendance.

1.51 MEETING AGENDA

- A. All attendees to meetings must sign in and provide contact information.
- B. Contractor must be prepared to discuss the following agenda items:
 - 1. Project Administration
 - Designated Contacts and Contact Information
 - Communication
 - EEO Program Requirements and Goals – Refer to individual sections detailing these programs.
 - Permit/Regulatory Requirements – Refer to Section 01 41 05 Regulatory Requirements
 - Start Date and Notice to Proceed
 - Payment Procedures - Refer to Section 01 29 76 Progress Payment Procedures
 - Submittals - Refer to Section 01 33 10 Submittal Procedures
 - Progress Meetings – Refer to Section 01 31 19.23 Progress Meetings
 - Construction Photographs – Refer to Section 01 32 33 Photographic Documentation
 - Maintaining Record Documents – Refer to Section 01 78 39 Project Record Documents
 - 2. Changes in Work
 - Requests for Information – Refer to Section 01 26 10 Contract Modifications.
 - Field Orders - Refer to GC Article 11.04.
 - Change Orders - Refer to GC Article 11.02 and Section 01 26 10 Contract Modification Procedures
 - 3. Construction Requirements
 - Engineer's Project Representative
 - Work Hours
 - Parking and Staging – Refer to Section 01 14 19 Use of Site and Section

- 01 55 10 Vehicular Access and Parking
- Site Security – Refer to Section 01 71 34 Protection of the Work and Property
- Construction Schedule and Critical Work Sequencing - Refer to Section 01 32 16 Construction Progress Schedule
- Product Delivery and Storage – Refer to Section 01 65 00 Product Delivery Requirements and Section 01 66 00 Product Storage and Handling Requirements
- Testing - Refer to Section 01 45 33 Code-Required Special Inspections and Procedures
- Safety – Refer to Section 01 35 23 Owner Safety Requirements and 01 35 28 Contractor's Health and Safety Plan
- Site Cleanliness – Refer to Section 01 74 10 Cleaning and Waste Management

4. Coordination

- Coordination with Owner's Operations - Refer to Section 01 14 17 Coordination with Owner's Operations

1.52 MEETING MINUTES

- A. Meeting minutes will be written by Engineer, as interpreted and recorded by Engineer.
- B. Meeting minutes will constitute a written record of items discussed. The written record will be binding to all parties. Minutes should be reviewed for accuracy upon receipt.
- C. Meeting minutes shall not be considered a substitute for, or satisfaction of, required submittals, written materials, or notifications specifically called out in other Specifications.
- D. Pre-construction meeting minutes will be reviewed at the first progress meeting. No changes will be made to minutes after review, unless Owner, Engineer and Contractor agree to the change.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 31 19.23
PROGRESS MEETINGS

PART 1 GENERAL

1.53 SUMMARY

- A. This section includes the requirements for meetings on progress of the Work during Contract Times.
- B. Related Sections:
 - 1. Section 01 14 17 – Coordination with Owner’s Operations
 - 2. Section 01 26 10 – Contract Modification Procedures
 - 3. Section 01 29 76 – Progress Payment Procedures
 - 4. Section 01 32 16 – Construction Progress Schedule
 - 5. Section 01 33 10 – Submittal Procedures
 - 6. Section 01 41 05 – Regulatory Requirements
 - 7. Section 01 45 33 – Code-Required Special Inspections and Procedures
 - 8. Section 01 73 24 – Connections to Existing Facilities

1.54 SCHEDULING

- A. Progress meetings will be conducted weekly, or at some other frequency as determined by Engineer. These meetings shall be attended by Owner, Engineer, Contractor’s representative. Owner, Engineer or Contractor may invite others that are involved in the construction or administration of the Work.
- B. Engineer will conduct the meeting, keep the minutes, and distribute the minutes to all persons in attendance.

1.55 MEETING AGENDA

- A. All attendees to meetings must sign in and provide contact information.
- B. Contractor must be prepared to discuss the following agenda items:
 - 1. Construction Progress
 - Work Completed
 - Testing Results - Refer to Section 01 45 33 Code-Required Special Inspections and Procedures
 - Schedule Updates - Refer to Section 01 32 16 Construction Progress Schedule
 - Critical Work Sequencing
 - Upcoming Work

2. Changes in Work

- Requests for Information - Refer to Section 01 26 10 Contract Modification Procedures
- Field Orders - Refer to GC Article 11.04.
- Change Orders - Refer to GC Article 11.02 and Section 01 26 10 Contract Modification Procedures

3. Project Administration

- Submittals - Refer to Section 01 33 10 Submittal Procedures
- EEO Program Status – Refer to individual section describing programs.
- Permit/Regulatory Requirements - Refer to Section 01 41 05 Regulatory Requirements
- Payment Requests - Refer to Section 01 29 76 Progress Payment Procedures

4. Coordination

- Coordination with Owner's Operations - Refer to Section 01 14 17 Coordination with Owner's Operations
- Strategies for Connections to Existing Facilities - Refer to Section 01 73 24 Connections to Existing Facilities

5. Deficiencies in Work

1.56 MEETING MINUTES

- A. Meeting minutes will be written by Engineer, as interpreted and recorded by Engineer.
- B. Meeting minutes will constitute a written record of items discussed. The written record will be binding to all parties. Minutes should be reviewed for accuracy upon receipt.
- C. Meeting minutes shall not be considered a substitute for, or satisfaction of, required submittals, written materials, correspondence, or notifications specifically required in other Specifications.
- D. Meeting minutes will be reviewed at the next meeting. No changes will be made to minutes after review, unless Owner, Engineer and Contractor agree to change.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

**SECTION 01 32 16
CONSTRUCTION PROGRESS SCHEDULE**

PART 1 GENERAL

1.57 SUMMARY

- A. This section includes the requirements for the Progress Schedule including submittals, format, monthly review, updates, revisions and request for time extension.
- B. Related Sections:
 - 1. Section 01 14 17 – Coordination with Owner’s Operations
 - 2. Section 01 26 10 – Contract Modification Procedures
 - 3. Section 01 31 19.23 – Progress Meetings
 - 4. Section 01 33 10 – Submittal Procedures

1.58 GENERAL

- A. Progress Schedule shall represent a practical plan to complete the Work within Contract Times and shall convey Contractor’s intent in the manner of progress of the Work.
- B. Scheduling and means and methods of construction are the responsibility of Contractor. Contractor shall involve and coordinate all Subcontractors and Suppliers in the development and updating of the Progress Schedule.
- C. Contractor will not be penalized for failure to meet finish dates for individual tasks indicated in the Progress Schedule as long as Contract Times are met, unless otherwise indicated in the Contract Documents.
- D. Refer to Section 01 14 17 Coordination with Owner’s Operations for limitations and information on operations that effect scheduling.
- E. Each Contractor shall be responsible for the proper coordination of all work under their respective Contract so as to maintain the Progress Schedule as accepted. Should any Contractor fail to adhere to any critical task of the accepted schedule, Contractor shall promptly adopt such additional means or methods of construction, including overtime, as may be required to complete the Work in accordance with the schedule, all at no additional cost to Owner.

1.59 SUBMITTALS

- A. Submittal of the Progress Schedule shall conform with the requirements of Section 01 33 10 Submittal Procedures.
- B. Schedules shall be submitted in time-scaled bar-chart (Gantt) format with logic lines shown. Format shall be as indicated in Article 1.4.
- C. Within 5 days after the date of Notice to Proceed, Contractor with the largest monetary total in their Contract, shall submit to Engineer for review one electronic copy of his proposed Progress Schedule.
 - 1. Progress Schedule shall show in detail the proposed sequence of the Work in order to complete the Project within Contract Times.
 - 2. If so required by Engineer, the schedule shall be revised.
- D. After acceptance of the Progress Schedule submitted above, Engineer will transmit the Progress Schedule to each of the other Contractors involved in the Project, should there be more than one Contract, for their use in preparing their Progress Schedule.
 - 1. Each Progress Schedule shall be submitted to Engineer for acceptance.
 - 2. Each Contractor shall afford sufficient time in their Progress Schedule to allow other Contractors to coordinate and perform their work.
 - 3. If so required by Engineer, the schedule shall be revised.
- E. In submittal of Progress Schedule, Contractor represents that it meets the requirements of the Contract Documents and that the Work will be executed in the sequence and durations indicated therein.

1.60 FORMAT

- A. Progress Schedule shall be electronically produced in the Critical Path Method (CPM) format, unless another format is approved by Engineer.
- B. Progress Schedule shall indicate the following:
 - 1. Contract tasks and baseline schedules.
 - 2. Critical path operations.
 - 3. Sequence of tasks.
 - 4. Task start and finish dates.
 - 5. Task percent complete with progress bars.

6. Milestone completion dates.
 7. Submittals and submittal reviews.
 8. Inspection and acceptance dates.
 9. Acquisition of permits, if needed.
 10. Product lead time if over 30 days.
 11. Work performed by other Contractors or Agencies that impact the Work.
- C. Scheduled tasks shall include sufficient detail as to identify work to be accomplished. Tasks should conform with bid item breakdown.
- D. Work to be performed by Subcontractors shall be clearly identified.

1.61 MONTHLY REVIEW AND UPDATES

- A. The Progress Schedule shall be reviewed monthly and updated if required.
- B. Impacts of Progress Schedule updates on Owner and other Contracts shall be considered in the monthly review and update.
- C. Updates to the Progress Schedule shall be submitted electronically, in the required format, to Engineer at least once per month. Updates shall be submitted prior to a progress meeting to assist in review at the meeting.
- D. The Progress Schedule shall be discussed at all progress meetings. Refer to Section 01 31 19.23 Progress Meetings for frequency of and agenda for progress meetings.

1.62 REVISIONS

- A. In the event Contractor does not adhere to their Progress Schedule and risks delays to other Contracts or Owner, Engineer may require revisions to the Progress Schedule as deemed necessary to reduce or eliminate such delays.
- B. Failure to progress the Work in accordance with the Progress Schedule submitted and accepted by Engineer may, at the discretion of Engineer, be construed as a failure to comply with the terms of the Contract.
- C. Revisions to critical path items in the Progress Schedule, or to items that impact Owner or other Contractors, may only be made with the knowledge and consent of Engineer.
- D. Engineer will require revisions to the Progress Schedule whenever any task is delayed or extends beyond the finish date to the extent that it is impacting other work. Engineer will determine when those revisions are necessary.

- E. Contractor may request permission to revise any part of the Progress Schedule. Requests will be made in writing to Engineer, who will consider the impact of such a change on the Project. Engineer will respond in writing with an approval or explanation as to why the requested change cannot be made.
- F. Revised Progress Schedules will be submitted to Engineer for approval. Engineer will distribute approved revisions.

1.63 REQUEST FOR TIME EXTENSION

- A. Continued maintenance of the Progress Schedule is the best way to estimate completion times and determine if Contract Times will need to be extended.
- B. A request for time extension for phases or specific components of the Project that does not require a change in Contract Times does not require a change to the Contract, unless otherwise stated in the Contract Documents.
- C. A request for time extension that changes Contract Times must be submitted in accordance with GC Article 11. Refer to Section 01 26 10 Contract Modification Procedures for information on changes to the Contract, including an extension of Contract Times.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 32 33 PHOTOGRAPHIC DOCUMENTATION

PART 1 GENERAL

1.64 SUMMARY

- A. This section includes administrative and procedural requirements for preconstruction photographs, construction photographs, post-construction photographs and videos.
- B. Related Sections:
 - 1. Section 01 33 10 – Submittal Procedures
 - 2. Section 01 77 19 – Closeout Requirements

3. Section 01 77 23 – Post Final Inspection

1.65 SUBMITTALS

- A. Submittals shall conform with the requirements of Section 01 33 10 Submittal Procedures.
- B. Photograph submittals shall be in electronic JPG format, with one hard copy submitted to Owner, and shall include:
 1. A plan of project site indicating vantage point, location and direction of each photograph (indicated by arrow). Each photo shall be identified by a unique photo number.
 2. A photo log listing:
 - Title of Project
 - Owner's District and Contract Numbers
 - Contractor's name
 - Date photo was taken
 - Photo number corresponding to that identified on plan of project site
 - Description of photograph
 - Location information not indicated on plan (e.g. vertical information)
 3. Photographs shall be arranged in sheets according to the location the photo was taken on the project site, in date order. Multiple photographs and photographs in varying proximity to the Work shall be provided of critical locations, equipment or activities and may be required by Engineer for areas with known or suspected concerns.
- C. Video submittals shall be submitted on a CD, USB Drive or other transferrable media and shall include:
 1. A video log listing:
 - Title of Project
 - Owner's District and Contract Numbers
 - Contractor's name
 - Date video was taken
 - Time length of video
 - List of video sections/ highlights
 - Time stamp where section / highlight is located
 - Description of section / highlight
 - Reference to pertinent equipment or specification section

2. Any other materials associated with the video, such as training manuals for training videos or equipment information for operational videos.
- D. Submittals of photographic evidence shall be made at the time of pay request, for all work included in the pay request, unless otherwise stated in the Contract Documents.
- E. In submitting photographs or videos to Owner, Contractor shall also transfer copyright usage rights for unlimited reproduction of that submitted.

1.66 PHOTOGRAPHS - GENERAL

- A. Contractor shall provide digital copies of the photographs taken with a minimum 6-megapixel camera.
- B. Photographs shall be verified to be in focus or shall be immediately retaken. Photographs shall be of sufficient quality to be printed in the dimensions of 8-inches by 10-inches without distortion.
- C. Critical locations, equipment or activities shall have a minimum of four (4) photographs taken from different vantage points and proximity to the Work. Engineer may require additional photographs of areas with known or suspected concerns.
- D. Photographs of the Site shall be taken as well as photographs of specific locations, equipment, and activities.
- E. The minimum number of photographs shall be those listed herein and those directed by Engineer. Contractor may take additional photographs as they deem necessary.
- F. Photographic documentation is used as evidence that the Work has been completed according to the Contract Documents. Engineer may, at his option, take additional photographs but will not be required to make these photographs available to Contractor.
- G. Engineer may use photographic documentation of Defective work in a Notice of Defects. Engineer may also use photographic documentation to settle disputes.

1.67 PRECONSTRUCTION PHOTOGRAPHS

- A. Contractor shall take digital photographs, prior to the start of the Work, at the locations of the Work.
- B. Contractor is responsible to take a sufficient number of preconstruction

photographs so as to resolve any disputes which may arise regarding the conditions prior to and subsequent to construction.

- C. Preconstruction photographs shall be submitted to Engineer for approval prior to starting the Work. Preconstruction photographs taken by Contractor will not be considered as part of the number of construction photographs required.
- D. Preconstruction photographs shall include the following:
 - 1. Overall views of the Site.
 - 2. Photos to indicate conditions prior to the start of the Work.
 - Structural condition.
 - Condition at connections to existing facilities.
 - Ground condition.
 - Condition of existing facilities adjacent to or involved in the Work.
 - Condition of adjacent properties (if close to the Site).
 - 3. Photos of areas that Contractor will use for parking, staging or storage.
- E. Should Engineer deem the number, type and quality of the photographs are insufficient to properly reflect existing conditions, Contractor shall re-take photographs until Engineer's acceptance is received.
- F. If a dispute arises in a location where no preconstruction photographs were taken, the disputed area shall be restored to the extent directed by Engineer and to the complete satisfaction of Engineer.

1.68 CONSTRUCTION PHOTOGRAPHS

- A. Contractor shall take digital photographs weekly, or at such intervals as necessary to provide complete documentation, to demonstrate progress of the Work. Photographs shall be taken at the locations and at such stages of construction to provide such documentation.
- B. During the Work, photographic documentation is required for all major activities, at appropriate intervals, to provide views representative of work being performed.
- C. A minimum of five (5) photographs per week shall be taken.
- D. Engineer may require additional photographs if Contractor photographs are not accurately demonstrating the progress of the Work.

1.69 POST-CONSTRUCTION PHOTOGRAPHS

- A. Upon completion of the Work, Contractor shall take digital photographs at the locations of the Work.

- B. Post-construction photographs shall be submitted to Engineer for approval prior to closeout. Refer to Section 01 77 19 Closeout Requirements. Post-construction photographs taken by Contractor will not be considered as part of the number of construction photographs required.
- C. Post-construction photographs shall include the following:
 - 1. Overall views of the Site.
 - 2. Photos to indicate end result of the Work.
 - Work installed.
 - Connections to existing facilities.
 - Modified facilities.
 - 3. Photos to indicate the condition after completion of the Work.
 - Condition of existing facilities adjacent to or involved in the Work.
 - Condition of adjacent properties (if close to the Site).
 - Condition of areas that Contractor used for parking, staging or storage.
 - 4. Defects or uncompleted work identified during the final inspection and subsequent repaired or completed work. Refer to Section 01 77 23 Post Final Inspection.
- D. Should Engineer deem the number, type and quality of the photographs are insufficient to properly document the result of the Work or the condition after completion, Contractor shall re-take photographs until Engineer's acceptance is received.

1.70 VIDEOS

- A. Contractor shall provide high-resolution, digital video with a minimum sensor resolution of 12 megapixels with vibration-reduction technology.
- B. Videos shall be verified to be in focus or shall be immediately retaken. Videos shall be of sufficient quality to be viewed on a 17-inch monitor without distortion.
- C. Videos depicting project work or existing conditions shall show a close-up of critical locations, equipment, or activities, or problem areas, at every possible angle and of sufficient length for documentation. Engineer may require additional close-up views of areas with known or suspected concerns.
- D. Video documentation is used as evidence that the Work has been completed according to the Contract Documents.
- E. Engineer may use video documentation of Defective work in a Notice of Defects. Engineer may also use video documentation to settle disputes.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

**SECTION 01 33 10
SUBMITTAL PROCEDURES**

PART 1 GENERAL

1.1 SUMMARY

- A. This section includes administrative and procedural requirements for Submittals.
- B. Related Sections:
 - 1. Section 01 25 13 – Product Substitution Procedures
 - 2. Section 01 77 19 – Closeout Requirements
 - 3. Section 01 78 23 – Operations and Maintenance Data

1.2 DEFINITIONS

- A. Performance Affidavit – A legal document stating that the performance of submitted equipment, apparatus, process or system meets the performance requirements of the Contract Documents.
- B. Warranty – A legal document certifying that if the equipment, apparatus, process or system fails in operation or performance for a given term, the manufacturer will be responsible for making all necessary repairs or replacements to meet operational or performance requirements.

1.3 SUBMITTALS – GENERAL

- A. Unless otherwise agreed upon by all parties, Submittals shall be submitted via e-mail in electronic PDF format. Submittals shall be made to the listed contacts for Owner and Engineer for the Project.
- B. Sequentially number each Submittal. Resubmittals are to have original number with an alphabetic suffix.
- C. Identify Project, Contractor, Subcontractor or Supplier, pertinent Drawings sheet number, pertinent detail number(s) from the Drawings, and Specifications section

number, on each Submittal as appropriate.

- D. Schedule the Submittals to expedite the Project. Coordinate submission of related items.
- E. Owner is permitted to inspect and test materials, or require inspection or testing of materials, submitted for approval. Engineer is the sole judge if it is necessary that any material or equipment be inspected at the place of manufacture.

1.4 SAMPLES

- A. Upon written notice from Engineer, or where specified in the Contract Documents, Contractor shall submit to Engineer, for review, samples of materials proposed for use. Samples shall be in duplicate, of sufficient size, number or amount to show the quality, type, range of color, finish, and texture of the material intended to be furnished under this Contract.
 - 1. Each sample shall be labeled bearing the name and quality of the materials, Contractor's name, date and name of the Project.
 - 2. A letter from Contractor requesting review, shall accompany all samples.
 - 3. Samples shall be submitted in due time so as to permit proper consideration without delaying Contractor's operation.

1.5 MANUFACTURER PERFORMANCE AFFIDAVITS

- A. When specified, Contractor shall provide a Performance Affidavit for the product or equipment listed.
- B. In the Performance Affidavit, each manufacturer shall certify to Contractor and Owner, jointly, that the Contract Documents have been examined and that the equipment, apparatus, process or system offered will meet in every way the performance requirements set forth in the Contract Documents. Equipment design, manufacturing and assembly specifications are an integral part of the performance requirements.
- C. Shop Drawings will not be reviewed prior to the receipt by Engineer of an acceptable Performance Affidavit.
- D. The Performance Affidavit must be signed by an officer (vice president or higher) of the basic corporation, partnership, or company manufacturing the equipment, and witnessed by a notary public.
- E. The Performance Affidavit shall be in the following format:

Addressed to: (Contractor) and (Owner)

Reference: (Contract Name)

Text: (manufacturer's name) has examined the Contract Documents and verifies that the (product) meets in every way the performance requirements and design specifications set forth in Section (s) _____ of the Contract Documents.

Signature: (Corporate officers - vice president or higher)

Notary: (Signature(s) must be notarized)

1.6 MANUFACTURER WARRANTY

- A. When specified, Contractor shall provide a Warranty for the product or equipment listed. The terms of the Warranty shall be included in the Submittal.
- B. The Warranty shall be provided for the length of time (term) specified in the Contract Documents and that term shall be clearly stated in the Warranty. If no term is specified, warranty shall be the manufacturer's standard, but not less than two (2) years.
- C. Any restrictions to the Warranty shall be clearly stated.
- D. Any conditions that would void the Warranty shall be clearly stated.
- E. The entity to be contacted to perform Warranty work shall be identified with complete contact information including address, telephone number for service, and e-mail address.

1.7 SUBMITTAL DEVIATIONS, SUBSTITUTIONS, AND "OR EQUAL"

- A. Identify deviations from the Contract Documents, where the Submittal meets Contract requirements but cannot be provided exactly as specified:
 - 1. Product or system limitations which may impact the performance of any part of the Work must be clearly stated in the cover documents.
 - 2. If the Submittal deviates from the requirements of the Specifications in any way, it shall be clearly marked in the Submittal and stated in the cover documents with justification, for evaluation by Engineer.
 - 3. Engineer shall evaluate all deviations and may determine that the Submittal should be classified as a substitution. Submittal must then meet the requirements in Section 01 25 13 Product Substitution Procedures.

- B. If the Shop Drawings contains any departures from the Contract requirements, the Submittal is a substitution and must meet the requirements of Section 01 25 13 Product Substitution Procedures. Submittals identified as substitutions are to be submitted in the same format as other Submittals.
- C. Where a Shop Drawings is submitted as an "or equal" the burden of proof that the Submittal is equal is on Contractor. In addition to other materials, Contractor shall furnish a listing of existing installations that the proposed equal may be reviewed, along with contact people at the existing installation.

1.8 SHOP DRAWINGS SUBMITTAL REQUIREMENTS

- A. Contractor shall submit for review, by Engineer, Shop Drawings for all fabricated work, manufactured items, equipment and material required to be furnished in the Contract and as required by the Specifications.
- B. Apply Contractor's stamp, signed or initialed certifying that review, verification of products required, field dimensions, adjacent construction work, and coordination of information, is in accordance with the requirements of the Project and Contract Documents. Stamp shall show the following information:

1. Shop Submittal Number _____
2. Deviations: None _____ As Listed _____
3. Reference Specification Number _____
4. Reference Drawing Number _____
5. Space Requirements: As Designed _____ As Listed _____
6. Representation is made to Owner and Engineer that Contractor has determined and verified all field measurements and quantities, field construction criteria, materials, catalog numbers and similar data, that they have reviewed and coordinated the information in each Shop Drawings with the requirements of the Work and Contract Documents, and hereby approves this submittal.

Contractor _____

Signature _____

Date _____

1.9 SHOP DRAWINGS SUBMITTAL TECHNICAL CONTENT

- A. Shop Drawings Submittals shall be complete and accurate and shall include the

following to indicate item-by-item compliance with the Contract Documents:

1. Verbal descriptions.
 2. Descriptive data.
 3. Performance characteristics.
 4. Material specifications.
 5. Drawings.
 6. Piping diagrams.
 7. Wiring schematics.
 8. Catalog cuts.
 9. Manufacturer's specifications.
 10. Spare parts list.
- B. Submittal shall be clearly marked to allow identification of the specific products used. Catalog cuts showing information for more than one item on the page shall clearly indicate what items Contractor will be supplying under this Contract by clearly highlighting by applying unique color, arrows, or other identifying marks.
- C. Equipment manufacturers supplying equipment for the project shall examine the Drawings and Specifications pertaining to their particular equipment in order to be fully acquainted with the operating conditions to which the equipment will be subjected.
- D. Shop Drawings for each major component of a system or subsystem, and its appurtenances, shall be submitted under separate cover, but all Shop Drawings for equipment which is part of the same system or subsystem shall be submitted in the form of a package.
1. If requested by Engineer, Contractor shall supplement the Submittals(s) by such data, as required, to demonstrate that the sizes, capacities, characteristics and/or performances of each component of a system or subsystem, are consistent (compatible) with each other and with the provisions of the Specifications, for said system or subsystem.
- E. Drawings for electrical equipment shall show
1. Physical dimensions.

2. Installation details.
 3. Elementary diagrams.
 4. Connection diagrams.
 5. Interconnection diagrams.
 6. Coordination of control work.
 7. Components external to electrical equipment.
 8. Contact arrangement.
 9. Control action of the primary and final control elements.
 10. Detailed shop wiring diagrams, where electrical control equipment having internal wiring is required.
 11. Elementary diagram of the input and output elements which require connections to external equipment.
 12. Complete step by step description of the control action.
- F. Contractor shall furnish spare parts data for each different item of equipment. The data shall include:
1. A complete list of parts and supplies which may be subject to breakdown.
 2. Current unit prices and source of supply.
 3. A list of parts and supplies that are normally furnished at no extra cost with the purchase of the equipment.
 4. A list of additional items recommended by the manufacturer to assure efficient operation for a period of 120 days at the particular installation.
 5. A list of additional items that will be difficult to order and receive within 14 days. Any parts that would require a lead time of 30 days or more shall be noted as such.
- G. The foregoing shall not relieve Contractor of any responsibilities under any Warranty or Performance Affidavit specified herein.
- H. Where required, professional design documents shall be submitted with any required professional signature and seal.

1.10 SHOP DRAWINGS REVIEW

- A. Acceptance or approval of a Shop Drawings shall not relieve Contractor of any responsibilities under the Contract.
- B. Any fabrication, erection, setting or other work done in advance of the receipt of Shop Drawings returned by Engineer and noted as "REVIEWED" or "REVIEWED AS NOTED," shall be entirely at Contractor's risk.
- C. When a Shop Drawings Submittal is satisfactory to Engineer, the Submittal will be stamped "REVIEWED" or "REVISED AS NOTED", be dated, and the Shop Drawings will be returned to Contractor by the same manner it was received.
- D. When a Shop Drawings Submittal is returned to Contractor "REVISED AS NOTED", Contractor shall acknowledge in writing to Engineer that they will provide, as required, all items noted and further that these notations have been properly provided to Suppliers, Subcontractors, and manufacturers associated with the product's Shop Drawings to assure compliance with Engineer's review.
- E. When a Shop Drawings Submittal is deemed to be unsatisfactory to Engineer, the Submittal will be stamped "REVISE AND RESUBMIT" and Engineer will return the deficient Shop Drawings to Contractor by the same manner it was received, with the necessary corrections and changes indicated. Contractor shall make such corrections and changes as indicated and resubmit revised Shop Drawings for further review by Engineer. Contractor shall revise and resubmit the Shop Drawings as required by Engineer, until acceptance thereof is obtained.
- F. Should a Shop Drawings be unacceptable to Engineer, the Submittal will be stamped "NOT ACCEPTED" and Engineer will return the deficient Shop Drawings to Contractor in the same manner it was received. It will be Contractor's responsibility to resubmit a Shop Drawings that complies with the Contract Documents and that is acceptable to Engineer.

1.11 POST-CONSTRUCTION SUBMITTALS

- A. All post-construction Submittals shall include a cover letter indicating the date of completion or Substantial Completion of the project, name of the Project, and identify Contractor, Engineer and Owner.
- B. All post-construction documents shall be submitted in PDF electronic format and two (2) hard copies shall be provided, unless otherwise indicated in the Contract Documents.
 - 1. Electronic copies of greater than 15 MB shall be submitted on transferrable media and not transmitted through e-mail, unless otherwise indicated in the

Contract Documents or agreed upon by all parties.

2. Hard copies shall be submitted to Owner, unless otherwise indicated in the Contract Documents or agreed upon by all parties.
- C. Upon completion of the Work, Contractor shall submit a form of guarantee certifying all of the Work performed under their Contract, for a correction period of a minimum one-year term, unless otherwise specified in the Contract Documents.
- D. Operation and Maintenance (O&M) Manuals and any other post-construction Submittals required by the Contract Documents shall be submitted upon completion of the Work.
 1. Refer to Section 01 78 23 Operations and Maintenance Data for information on O&M Manuals requirements.
 2. The spare parts listing and information outlined in 1.9-F shall be included in the O&M Manuals Submittal.
 3. Refer to Section 01 77 19 Closeout Requirements for detailed information for documents required to close out the Project.
- E. Where a manual is required, a table of contents shall be included and all sections shall be tabbed in the hard copy and separated by colored pages in the electronic copy.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 35 23 OWNER SAFETY REQUIREMENTS

PART 1 GENERAL

1.12 SUMMARY

- A. This section includes minimum, general safety requirements instituted by Owner or general recommendations for safety at Owner's facilities.

B. Where Owner's requirements conflict with OSHA Standards or Federal, State and Local health and safety requirements, the more stringent shall apply.

C. Related Sections:

1. Section 01 35 28 – Contractor's Health and Safety Plan

1.13 GENERAL

A. No information listed shall relieve Contractor of their obligation to comply with requirements instituted by the Occupational Safety and Health Administration (OSHA) or any other Federal, State or Local health and safety regulations and requirements that apply to the Project.

B. No information listed shall relieve Contractor of their sole responsibility for health and safety of all workers under their control. Contractor shall incorporate requirements from this section, as appropriate, into the Contractor's Health and Safety Plan, prepared and submitted in accordance with Section 01 35 28 Contractor's Health and Safety Plan.

C. All work areas should be reviewed by Contractor to determine safety requirements for all workers under the control of Contractor, regardless of designation or lack of designation by Owner.

1.14 Personal Protective Equipment (PPE)

A. Owner requires the use of the following PPE when working in process areas of the facility:

1. Safety shoes
2. Safety helmet/hard hat

B. Owner recommends the use of the following PPE:

1. Eye protection in process areas or when coming into contact with wastewater or wastewater solids.
2. Ear protection in areas with greater than 70dB of noise.
3. Masks or face shields as appropriate for the work being performed or when coming into contact with wastewater or wastewater solids.
4. Gloves as appropriate for the work being performed or in the solids handling or chemical storage areas of facilities. Latex gloves or similar level protection is recommended when coming into contact with wastewater or wastewater solids.

5. Waterproof or chemical resistant material body protection, such as rubber, plastic or Tyvek suits, boots, gloves, or waders, when a body part must be submerged in wastewater or wastewater solids.

C. All PPE must be supplied by Contractor and comply with appropriate regulations.

1.15 EVACUATION PLAN

- A. Contractor shall familiarize themselves with the posted evacuation plan at the facility at which the Work is located. Contractor shall notify Engineer if such a plan cannot be located or if the Work prevents Contractor from carrying out the plan as designated.
- B. Contractor shall identify the nearest exit from the facility in the event of an emergency which requires evacuation.
- C. Contractor shall notify Engineer or Owner whenever present at a facility in case of emergency.

1.16 EMERGENCY SERVICES

- A. Contractor shall identify emergency services in close proximity to the Site and how to request services. These services include, without limitation, police, fire and medical. Contractor shall notify Engineer or Owner if services cannot be identified and information will be provided.
- B. Contractor shall retain the address of the work site, as identified in the Contract Documents, to appropriately direct services in the event of an emergency.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 35 26.23
CONFINED SPACE ENTRY PLAN

PART 1 GENERAL

1.17 SUMMARY

- A. This section includes administrative requirements for Contractor's Confined Space Entry Plan.
- B. Related Sections:

1. Section 01 33 10 – Submittal Procedures
2. Section 01 35 28 – Contractor's Health and Safety Plan

1.18 DEFINITIONS

- A. Contractor's Health and Safety Plan – A plan written and administered by Contractor to identify and explain the policies and procedures of Contractor with regard to the health and safety of those under their control when working at the Site or on components of the Project.
- B. Confined Space Entry Plan – A plan, that may be a component of the Contractor's Health and Safety Plan, that addresses requirements for entry into a confined space, as defined in applicable regulations.
- C. Safety Officer –The person(s) identified in Contractor's Health and Safety Plan as responsible for ensuring that all workers under the control of Contractor understand, are trained in, and adhere to the requirements in that Contractor's Health and Safety Plan. This officer must be an employee of, company contracted by, or otherwise under the control of Contractor.

1.19 CONFINED SPACE – GENERAL

- A. The Occupational Health and Safety Administration (OSHA) defines different types of confined spaces. Contractor must refer to the most recent regulations when determining if an area is a confined space.
- B. Contractor shall comply fully with the rules and regulations as stated in OSHA 29 CFR 1910, Subpart AA of 29 CFR 1926 and any other applicable regulation.
- C. Owner may identify areas that could be considered confined spaces. Contractor shall evaluate all areas involved in the Work and independently determine what precautions are necessary for workers under their control.
- D. When the Project contains more than one Contract, each Contractor shall be required to coordinate confined space entry operations with the other Contractors when workers under the control of more than one Contractor are working simultaneously within a confined space.
- E. Owner's operations generally deal with industrial, municipal and residential wastewater. Wastewater is known to contain viruses, compounds, and chemicals. Such materials may become concentrated in a confined space.

1.20 CONFINED SPACE ENTRY PLAN

- A. Contractor shall complete the Confined Space Program Certification in the

Proposal section when submitting their bid, certifying that Contractor has established a Confined Space Program which conforms to OSHA 29 CFR 1910 and OSHA Subpart AA of 29 CFR 1926 and that full implementation of Contractor's Confined Space Entry Plan is a requirement of this Contract.

- B. Review or acceptance of the Confined Space Entry Plan shall not relieve Contractor of any responsibilities related to the health and safety of the workers under their control.
- C. Contractor shall submit a Confined Space Entry Plan, either as part of the Contractor's Health and Safety Plan or as an independent document, to demonstrate that Contractor has policies and procedures related to confined spaces and to identify those policies and procedures.
 - 1. Requirements for the Contractor's Health and Safety Plan are contained in Section 01 35 28 Contractor's Health and Safety Plan.
 - 2. Requirements for submitting documents is contained in Section 01 33 10 Submittal Procedures.
- D. Engineer, in reviewing or accepting a Contractor's Confined Space Entry Plan, is acknowledging the policies and procedures of Contractor but is not determining the compliance of such a plan with any regulatory requirements. Contractor is responsible for ensuring compliance with regulations.
- E. Engineer, in reviewing or accepting a Contractor's Confined Space Entry Plan, is not approving the content of the Plan. Engineer may request additional information if the submitted plan does not appear to contain policies and procedures sufficient to protect health and safety.
- F. If Engineer or Owner should question a method utilized in the Contractor's Confined Space Entry Plan, Contractor will be required to obtain a written response from OSHA which will determine if the procedure does or does not satisfy the requirements of OSHA 29 CFR 1910 and Subpart AA of 29 CFR 1926. Failure by Contractor to undertake the necessary steps to produce a written response from OSHA may delay the processing of the monthly payment estimate(s).
- G. Contractor and their Safety Officer shall be on-site to ensure that the Work is carried out in accordance with their Confined Space Entry Plan and OSHA, or any other applicable regulations.
- H. Contractor shall inform Engineer and Owner of any changes to the submitted Confined Space Entry Plan.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 35 28 CONTRACTOR'S HEALTH AND SAFETY PLAN

PART 1 GENERAL

1.21 SUMMARY

- A. This section includes administrative requirements for Contractor's plan to comply with health and safety regulations instituted by the Occupational Safety and Health Administration (OSHA) and any other Federal, State or Local health and safety regulations and requirements that apply to the Project.
- B. Contractor is solely responsible for all site safety. Contractor's equipment and methods of operation shall be in full compliance with OSHA Standards and satisfy all Federal, State and Local health and safety regulations and requirements, regardless if they are explicitly stated in the Contractor's Health and Safety Plan. Contractor will be solely responsible for his safety program and the coordination of such with all persons and companies under his control.
- C. Related Sections:
 - 1. Section 01 33 10 – Submittal Procedures
 - 2. Section 01 35 26-23 – Confined Space Entry Plan
 - 3. Section 01 52 16 – First Aid Facilities

1.22 DEFINITIONS

- A. Contractor's Health and Safety Plan – A plan written and administered by Contractor to identify and explain the policies and procedures of Contractor with regard to the health and safety of those under their control when working at the Site or on components of the Project.
- B. Confined Space Entry Plan – A plan, that may be a component of the Contractor's Health and Safety Plan, that addresses requirements for entry into a confined space, as defined in applicable regulations.

- C. Safety Officer –The person(s) identified in Contractor’s Health and Safety Plan as responsible for ensuring that all workers under the control of Contractor understand, are trained in, and adhere to the requirements in that Contractor’s Health and Safety Plan. This officer must be an employee of, company contracted by, or otherwise under the control of Contractor.

1.23 HEALTH AND SAFETY – GENERAL

- A. OSHA administers and enforces regulations and requirements related to construction health and safety, generally included in 29 CFR 1926. Contractor must refer to the most recent regulations when creating a Contractor’s Health and Safety Plan.
- B. Owner may identify areas of the Site or components of the Work that are of particular concern. Contractor shall evaluate all areas and components involved in the Work and independently determine what precautions are necessary for workers under their control.
- C. When the Project contains more than one Contract, each Contractor shall be required to coordinate health and safety requirements with the other Contractors when workers under the control of more than one Contractor are working simultaneously within an area or on a Site.
- D. Owner’s operations generally deal with industrial, municipal and residential wastewater. Wastewater is known to contain viruses, compounds, and chemicals. Contact with wastewater should be considered when creating the Contractor’s Health and Safety Plan.
- E. First aid facilities must be provided at the Site for workers that are injured in connection with the Work, in accordance with Section 01 52 16 First Aid Facilities.

1.24 PLAN REQUIREMENTS

- A. Contractor’s Health and Safety Plan shall be specific to the Project and include identified hazards and precautions for the Site.
- B. Contractor shall submit a Confined Space Entry Plan, either as part of the Contractor’s Health and Safety Plan or as an independent document. Requirements for the Confined Space Entry Plan are contained in Section 01 35 26-23 Confined Space Entry Plan.
- C. References to written OSHA regulations shall be included.
- D. Requirements for submitting documents is contained in Section 01 33 10

Submittal Procedures.

- E. Contractor's Health and Safety Plan must be submitted and accepted before any work can take place on the Site.

1.25 PLAN REVIEW

- A. Engineer, in reviewing or accepting a Contractor's Health and Safety Plan, is acknowledging the policies and procedures of Contractor but is not determining the compliance of such a plan with any regulatory requirements. Contractor is responsible for ensuring compliance with regulations.
- B. Engineer, in reviewing or accepting a Contractor's Health and Safety Plan, is not approving the content of the Plan. Engineer may request additional information if the submitted plan does not appear to contain policies and procedures sufficient to protect health and safety.

1.26 PLAN ADMINISTRATION

- A. All persons under control of Contractor, including supervisory and all levels and types of workers, shall be trained in the submitted Contractor's Health and Safety Plan.
- B. All safety equipment such as harnesses, protective clothing, respiratory, air monitoring, ventilating, and similar apparatus for activities associated with construction or testing of the Work shall be provided by Contractor.
- C. If Engineer or Owner should question a method utilized in the Contractor's Health and Safety Plan, Contractor will be required to obtain a written response from OSHA which will determine if the procedure does or does not satisfy the requirements of OSHA 29 CFR Part 1926. Failure by Contractor to undertake the necessary steps to produce a written response from OSHA may delay the processing of the monthly payment estimate(s).
- D. Contractor shall inform Engineer and Owner of any changes to the submitted Contractor's Health and Safety Plan.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.4 REPORTING

- A. Contractor shall promptly report, in writing to Engineer, all accidents which caused death, personal injury or property damage, whatsoever arising out of or in connection with the performance of the Work, whether on or adjacent to the Site.
 - 1. Contractor must give full details and statements of witnesses.
 - 2. If death or serious injuries or serious damages are caused, the accident shall be reported immediately by telephone or message to both Engineer and Owner.
 - 3. If any claim is made by anyone against Contractor or their Subcontractor, Contractor shall promptly report the circumstances in writing to Engineer, giving full details of the claim, including the exact wording of the claim.

3.5 PLAN COMPLIANCE

- A. Contractor shall provide a safe environment for all persons entering the Site or completing the Work.
- B. Precaution shall be exercised at all times for the protection of persons (including employees) and property, and hazardous conditions shall be guarded against or eliminated.
- C. Contractor shall notify other Contractors, Engineer and Owner of any requirements that should be observed while the Work is in progress.
- D. The Safety Officer shall visit the Site to ensure all persons under the control of Contractor are following the Contractor's Health and Safety Plan and all applicable OSHA regulations.
- E. Any notification by Engineer or Owner requesting clarification of Contractor activities or actions of persons under Contractor's control, related to the Contractor's Health and Safety Plan, shall be addressed by the Safety Officer or his on-site representative.
 - 1. Notifications by Engineer or Owner do not relieve Contractor from complete responsibility for Contractor and Site health and safety.
 - 2. Notifications by Engineer or Owner do not determine compliance with the Contractor's Health and Safety Plan or any regulations but request clarification of Contractor's interpretation of the plan.

END OF SECTION

SECTION 01 35 43-13
ENVIRONMENTAL PROCEDURES FOR HAZARDOUS MATERIALS

PART 1 GENERAL

1.27 SUMMARY

- A. This section includes environmental procedures for hazardous materials that are used in the course of the Work.
- B. This section does not include hazardous materials encountered on the Site.
- C. Related Sections:
 - 1. Section 01 35 28 – Contractor’s Health and Safety Plan
 - 2. Section 01 52 16 – First Aid Facilities

1.28 DEFINITIONS

- A. Hazardous Material – Any material containing hazardous properties or hazardous components as defined by the Occupational Safety and Health Administration (OSHA) or other regulatory agency.
- B. Hazard Communication Standard (HCS) – The standard, issued by OSHA, that provides guidance on classifying chemicals and communicating hazards.
- C. Safety Data Sheet (SDS) –A standard format of information from a chemical manufacturer, distributor or importer that explains the properties of each chemical; physical, health and environmental hazards; protective measures; and safety precautions for handling, storage and transportation, as required in the HCS.

1.29 ENVIRONMENTAL PROCEDURES – GENERAL

- A. OSHA administers and enforces regulations and requirements related to the hazard communications, generally included in 29 CFR 1910.1200. Contractor must refer to the most recent regulations when determining the applicability of the regulations to the materials at the Site.
- B. Owner may identify components of the Work that would be considered Hazardous Materials. Contractor shall evaluate all components involved in the Work and independently determine what precautions and communications are necessary.
- C. Contractor shall make all hazard communication information available to other Contractors, Engineer and Owner at all times.

- D. Owner's operations generally deal with industrial, municipal and residential wastewater. Wastewater is known to contain viruses, compounds, and chemicals but is not considered a hazardous material.
- E. First aid facilities provided for workers must include, to the extent possible, materials to stabilize injuries associated with hazardous materials. Refer to Section 01 52 16 First Aid Facilities.
- F. Known hazards and plans to mitigate hazards should be identified in the Contractor's Health and Safety Plan. Refer to Section 01 35 28 Contractor's Health and Safety Plan.

1.30 HCS REQUIREMENTS

- A. Contractor shall determine the Hazardous Materials involved in the Work and determine the communication requirements.
- B. SDSs shall be kept and maintained according to regulation.
- C. Workers must be trained on the handling and use of any Hazardous Materials involved in their work.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.6 HCS MAINTENANCE

- A. Contractor shall maintain the inventory of SDSs and any other hazard information throughout construction. This shall be available at all times.
- B. No materials shall be brought onto the Site without the accompanying SDS.
- C. Contractor shall notify other Contractors, Engineer and Owner of any Hazardous Materials in use throughout the progress of the Work.
- D. Contractor is responsible to train and educate all persons under their control as to any Hazardous Materials and any hazards present as a result.
- E. Contractor shall supply the necessary equipment, materials, and personal protective equipment throughout construction to mitigate hazards.

END OF SECTION

SECTION 01 41 05
REGULATORY REQUIREMENTS

PART 1 GENERAL

1.71 SUMMARY

- A. This section includes references to federal, state and local regulations, information on requirements included in regulations and associated permitting.
- B. Related Sections:
 - 1. Section 01 33 10 – Submittal Procedures
 - 2. Section 01 35 26.23 – Confined Space Entry Plan
 - 3. Section 01 35 28 – Contractor's Health and Safety Plan
 - 4. Section 01 35 43.13 – Environmental Procedures for Hazardous Materials
 - 5. Section 01 45 33 – Code-Required Special Inspections and Procedures
 - 6. Section 01 77 19 – Closeout Requirements

1.72 ABBREVIATIONS

- A. CFR – Code of Federal Regulations
- B. DEC – Department of Environmental Conservation
- C. DOT – Department of Transportation
- D. DPW – Department of Public Works
- E. EPA – United States Environmental Protection Agency
- F. NYS - New York State
- G. OSHA – Occupational Safety and Health Administration
- H. SPDES - State Pollution Discharge Elimination System
- I. USACE – United States Army Corps of Engineers

1.73 GENERAL

- A. Permits, licenses and easements for permanent structures or permanent changes in existing facilities will be secured and paid for by Owner, unless otherwise specified.
- B. Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the Work as drawn and specified. If Contractor observes that the Contract Documents are at variance therewith,

Contractor shall promptly notify Engineer in writing and any necessary changes shall be adjusted as to the additional work and changes.

- C. If Contractor's methods of construction require that additional permit(s) be obtained, the cost for such permits and any delays in construction associated therewith shall be borne by Contractor.
- D. Codes and regulations referenced in the Contract Documents are not a comprehensive list of all that is applicable to the Work. The codes and regulations listed in the Contract Documents are referenced for the information and convenience of the Contractor. Not all codes or regulations applicable to the Work have been cited or adequately described in the Contract Documents. Contractor is responsible for compliance with all codes and regulations applicable to the Work and relevant to the Contractor's means and methods of performing the Work.

1.74 OSHA REQUIREMENTS

- A. OSHA administers and enforces regulations and requirements related to construction health and safety, generally included in 29 CFR 1926 and 29 CFR 1910. Contractor must comply with the most recent regulations. OSHA Requirements include, without limitation, the following provisions:
 - 1. General provisions including, without limitation, training, reporting of injuries, medical attention, fire prevention, housekeeping, personal protective equipment (PPE), employee records, and emergency action plans.
 - 2. Occupational health and environmental concerns including, without limitation, sanitation, noise exposure, radiation, ventilation, communication, and hazardous chemicals and waste.
 - 3. Personal protective and life saving equipment including, without limitation, criteria for PPE, foot protection, electrical protective equipment, head protection, hearing protection, eye and face protection, respiratory protection, safety belts, safety nets, and working over or near water.
 - 4. Fire protection and prevention including, without limitation, fire protection, fire prevention, flammable liquids, and temporary heating devices.
 - 5. Accident prevention signs and tags.
 - 6. Materials handling, storage, use and disposal.
 - 7. Hand and power tools.

8. Welding and cutting.
 9. Electrical including, without limitation, wiring design and protection; wiring methods, components, and equipment; specific purpose equipment and installations; hazardous locations; lockout and tagging of circuits; environmental deterioration of equipment; and batteries and battery charging.
 10. Scaffolds and fall protection.
 11. Helicopters, hoists, elevators and conveyors.
 12. Motor vehicles, mechanized equipment and marine operations.
 13. Excavations including, without limitation, specific excavation requirements, requirements for protective systems, soil classification, sloping and benching, shoring for trenches, and selection of protective systems.
 14. Concrete and masonry construction including, without limitation, requirements for equipment and tools, cast-in-place concrete, precast concrete, lift slab operations, and masonry construction.
 15. Steel erection.
 16. Underground construction, caissons, cofferdams, and compressed air.
 17. Demolition.
 18. Blasting and the use of explosives.
 19. Electrical power transmission and distribution including, without limitation, medical services, enclosed spaces, PPE, portable ladders and platforms, power equipment, live-line tools, materials handling and storage, working near energized parts, de-energizing lines and equipment, grounding protection, testing, overhead lines, underground installations, and substations.
 20. Rollover protective structures and overhead protection.
 21. Stairways and ladders.
 22. Toxic and hazardous substances.
 23. Standard interpretations.
- B. Contractor must explicitly state how they will comply with OSHA's requirements. Refer to Section 01 35 28 Contractor's Health and Safety Plan.

- C. Contractor must identify confined spaces and comply with rules and regulations related to confined space entry. Refer to Section 01 35 26.23 Confined Space Entry Plan.
- D. Contractor must provide safety data sheets for hazardous chemicals used in the Work. Refer to Section 01 35 43.13 Environmental Procedures for Hazardous Materials.

1.75 UTILITIES

- A. Contractor shall comply with New York State General Business Law Section 764 Duties of Excavators and all requirements referenced within.
- B. Contractor shall contact UDig NY at udigny.org or 811 prior to any excavation. Contractor shall be responsible for obtaining any permits required for utility protection.
- C. Contract shall obtain necessary permits and requirements from the Erie County Water Authority or the municipality that owns the water system before using any hydrants.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.1 PERMIT CLOSE-OUT

- A. All applicable permit requirements must be completed prior to project closeout. Refer to Section 01 77 19 Closeout Requirements for specific information related to the Work.

END OF SECTION

SECTION 01 42 00 REFERENCES

PART 1 GENERAL

1.76 SUMMARY

- A. This section includes an explanation of references to standards that may be used throughout the Specifications. This section also contains definitions of terms, acronyms and abbreviations used throughout the Contract Documents.

1.77 DEFINITIONS

- A. Approve(d) – Approval action shall be limited to the duties and responsibilities of the party giving approval. Approvals shall be valid only if obtained in writing and shall not apply to that which is the responsibility of Contractor including, without limit, means, methods, techniques, and procedures of construction. Approval shall not relieve Contractor from any Contract requirements.
- B. Directed – This term shall be limited to the authority given by the Contract Documents for the purpose for which it is used. This term shall not be interpreted to extend to the responsibility of any other party or to Contractor's supervision of construction.
- C. Furnish – Supply and deliver to the Site.
- D. Install – Operations at the Site including, without limitations, unloading, storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.
- E. Provide – Furnish and install, complete and ready or intended use.
- F. Testing Agency – An independent entity engaged, through contract or other procurement, to perform specific inspections or tests, and to report on and interpret results of the inspections or tests, where applicable.

1.78 STANDARDS

- A. General – Contractor, or those under the control of Contractor, shall be familiar with the applicable aspects of the specified standard where it applies to the Work. Contractor, or those under the control of Contractor, must obtain reference standards from publishing sources for any standard with which Contractor is unfamiliar.
- B. Applicability - Unless the Contract Documents include more stringent requirements, applicable industry standards have the same force and effect as if they were included in the Contract Documents to the extent referenced. Standards are made part of the Contract Documents by reference. It is Contractor's responsibility to prove compliance with referenced standards.
- C. Publication Dates – Unless otherwise indicated, compliance shall be with the most recent version of the referenced standard, at the date of the Contract.
- D. Conflicts – Where two or more standards are referenced, the most stringent requirement shall be enforced, should there be a conflict in the requirements, unless otherwise specified. If Contractor cannot determine which is more stringent, clarification from Engineer shall be requested.

- E. Minimum or Maximum – Where a minimum or maximum value is stated in a standard, compliance can be achieved if a minimum is equaled or exceeded or a numerical value is at or below a maximum. Where both are stated, compliance must be within both ranges.
- F. Compliance – When requested, Contractor shall furnish evidence satisfactory to Engineer or Owner that materials and methods are in accordance with standards. Such evidence may include the written standard, or applicable parts thereof.
- G. When no reference is made to a code, standard or specification, the Standard Specifications of the ASTM shall govern.

1.79 ACRONYMS

- A. Reference to a technical society, organization, or body may be made in the Specifications by acronyms according to the following list:
 - 1. AAMA - Architectural Aluminum Manufacturers Association
 - 2. AASHO - American Association of State Highway Officials
 - 3. ACI - American Concrete Institute
 - 4. AGA - American Gas Association
 - 5. AGMA - American Gear Manufacturers Association
 - 6. AISC - American Institute of Steel Construction
 - 7. AMCA - Air Moving and Conditioning Association, Inc.
 - 8. ANSI - American National Standards Institute, Inc.
 - 9. ASCE - American Society of Civil Engineers
 - 10. ASHRAE - American Society of Heating, Refrigerating and Air Conditioning Engineers
 - 11. ASTM - American Society of Testing Materials
 - 12. ASME - American Society of Mechanical Engineers
 - 13. AWPA - American Wood Preservers Association
 - 14. AWS - American Welding Society Code
 - 15. AWWA - American Water Works Association
 - 16. CIPRA - Cast Iron Pipe Research Association
 - 17. CRSI - Concrete Reinforcing Steel Institute
 - 18. ETL - Electrical Testing Laboratories, Inc.
 - 19. Fed. Spec - Federal Specifications
 - 20. FM - Factory Mutual Association
 - 21. IEEE - Institute of Electrical & Electronic Engineers
 - 22. JIC - Joint Industry Conference
 - 23. NBS - National Bureau of Standards
 - 24. NEMA - National Electrical Manufacturers Association
 - 25. NFPA - National Fire Protection Association
 - 26. NEC - National Electrical Code

27. OSHA - Occupational Safety & Health Administration
28. SMACCNA - Sheetmetal and Air Conditioning Contractors National Association
29. SSPC - Steel Structures Painting Council
30. UL - Underwriters' Laboratories, Inc.
31. USASI - United States of America Standard Institute

B. Where acronyms are not spelled out above, they shall mean the recognized name of the trade association, standards-producing organization, authorities having jurisdiction or other applicable entity, given the context.

1.80 ABBREVIATIONS

A. The following are commonly-used abbreviations. Abbreviations may be capitalized or lower case:

1. AC – alternating current or air conditioning
2. AMP – ampere
3. C – Celsius
4. CFM – cubic feet per minute
5. CM – centimeter
6. CY – cubic yard
7. DC – direct current
8. DEG – degrees
9. F – Fahrenheit
10. FPM – feet per minute
11. FPS – feet per second
12. FT –feet
13. GAL – gallons
14. GPM – gallons per minute
15. IN – inches
16. KIP – thousand pounds
17. KSI – thousand pounds per square inch
18. KSF – thousand pounds per square foot
19. KV – kilovolt
20. KVA – kilovolt amperes
21. KW – kilowatt
22. KWH – kilowatt-hour
23. LBF – pounds force
24. LF – lineal feet
25. M – meters
26. MPH – miles per hour
27. MM – millimeter
28. PCF – pounds per cubic foot
29. PSF – pounds per square foot
30. PSI – pounds per square inch

- 31. PSY – per square yard
- 32. SF – square foot
- 33. SY – square yard
- 34. V - volts

- B. Abbreviations may also be listed on the Drawings.
- C. Where abbreviations are not spelled out above, they shall mean the recognized shortening of term, given the context. Contractor shall request clarification for any abbreviation that is not listed or the definition known.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION **SECTION 01 45 05** **QUALITY CONTROL**

PART 1 GENERAL

1.81 SUMMARY

- A. This section includes standards for the Project related to quality and quality control.
- B. Related Sections:
 - 1. Section 01 25 13 – Product Substitution Procedures
 - 2. Section 01 33 10 – Submittal Procedures
 - 3. Section 01 42 00 – References
 - 4. Section 01 45 33 – Code-Required Special Inspections and Procedures
 - 5. Section 01 61 00 – Common Product Requirements
 - 6. Section 01 62 00 – Product Options

1.82 GENERAL

- A. Wherever in these Specifications any material or apparatus is designated by its trade name, brand or name of manufacturer, it shall be understood that such material or apparatus is specified as a standard of quality required.
- B. The workmanship and materials of all items shall meet industry standard quality requirements and the quality standards of the Contract Documents. If there should be a discrepancy, the highest quality standard shall be maintained unless

otherwise directed by Engineer.

- C. Referenced standards, as explained or listed in Section 01 42 00 References, may be used to determine the quality of materials or workmanship.
- D. Material quality shall be maintained from procurement to acceptance of the Project. The quality shall not be diminished by action or neglect.

1.83 MATERIALS REQUIRING SAMPLES

- A. Any material submitted as an 'or equal' in accordance with Section 01 33 10 Submittal Procedures, must be demonstrated to be of equal quality to that of the specified material. Samples may be required.
- B. Where material and quality are not definitely specified, samples or specimens shall be submitted to Engineer in accordance with Section 01 33 10 Submittal Procedures for review, except as otherwise specified for that material.
- C. Where materials are submitted as part of a substitution, in accordance with Section 01 25 13 Product Substitution Procedures, samples or specimens shall be submitted to Engineer in accordance with Section 01 33 10 Submittal Procedures for review to ensure quality.
- D. Contractor shall furnish for review, so as to cause no delay in the Work for any Contract, all required samples. Engineer shall review such samples, with reasonable promptness, for quality standards.
- E. Materials supplied shall be in accordance with reviewed samples. All materials incorporated into the Work shall be equal in quality to the reviewed samples. Should any dispute arise as to the quality or fitness of workmanship, equipment, materials or articles, the decision shall rest with Engineer.
- F. Any material delivered to the Site, whether incorporated in the Work or not, which does not conform to the reviewed sample, will be rejected and shall be promptly removed from the Site and replaced by acceptable materials at Contractor's expense.

1.84 INSPECTION AND TESTING

- A. Owner is permitted to inspect and test materials, or require inspection or testing of proposed materials, for quality, in accordance Section 01 33 10 Submittal Procedures. The need for testing of materials shall be determined by Engineer.
 - 1. Code required inspection and testing shall be in accordance with Section 01 45 33 Code-Required Special Inspections and Procedures.

- B. The selection of bureaus, laboratories, and/or agencies for such inspection and testing is subject to the approval of Engineer.
- C. Satisfactory documentary evidence that material has passed the required inspection and testing must be furnished to Engineer prior to its incorporation in the Work.
- D. Any material rejected following inspection or testing must be promptly removed from the Site, whether stored or installed in the work.
- E. The inspection and acceptance of materials and work at the mills, shops, or at any place where material or work is in course of preparation, to facilitate the progress of the Work, shall not preclude rejection at the Site, if the material were found unsuitable.

1.85 STANDARD PRODUCTS

- A. All materials, equipment and accessories shall be new and unused and shall be essentially the standard product of a manufacturer regularly engaged in the production of such material or equipment. See Section 01 61 00 Common Product Requirements. Such items proposed under these conditions must meet all the technical requirements as stated in the Contract Documents.
- B. Any options supplied must meet quality standards and technical requirements as stated in the Contract Documents. See Section 01 62 00 Product Options.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 45 33 CODE REQUIRED SPECIAL INSPECTIONS AND PROCEDURES

PART 1 GENERAL

1.86 SUMMARY

- A. This section includes references to federal, state and local codes, information on requirements included in codes and associated required special inspection, and storage tank removal procedures.

B. Related Sections:

1. Section 01 41 05 – Regulatory Requirements

1.87 ABBREVIATIONS

- A. DPW – Department of Public Works
- B. IBC – International Building Code
- C. IECC – International Energy Conservation Code
- D. IMC – International Mechanical Code
- E. IPC – International Plumbing Code
- F. NEC – National Electrical Code (NFPA 70)
- G. NFPA – National Fire Protection Association
- H. NFPA 101 – Life Safety Code
- I. NYSDEC – New York State Department of Environmental Conservation

1.88 IBC REQUIREMENTS

- A. IBC includes portions of the requirements in IPC, IMC, NEC, NFPA and NFPA 101. These requirements are included by reference, as applicable, when referring to IBC.
- B. Erie County requires that all work conforms with IBC. This includes special inspections and procedures included in those guidance documents. These requirements will generally be listed in the required Building Permit Application with DPW.
- C. Contractor shall be aware of the requirements in most current IBC and shall perform special inspections and procedures required by IBC, if directed by Engineer, at Contractor expense, regardless if such inspection is specifically stated in the Contract Documents or DPW Building Permit.
- D. Contractor responsible for work included in the IBC code shall be responsible for providing the special inspection and procedures.

1.89 IECC REQUIREMENTS

- A. Certain aspects of construction may reference requirements in IECC. Conformance with IECC shall include any related special inspections or procedures in manufacture or installation, regardless if those special inspections or procedures are specifically stated.

1.90 REQUIRED SPECIAL INSPECTIONS

- A. A third-party electrical inspection shall be performed following electrical work in any County building. Electrical Contractor shall be required obtain such an inspection, at Contractor expense.
- B. A certification of compliance with all emergency power and lighting requirements shall be provided by Electrical Contractor following work in a County building. Electrical Contractor shall notify Engineer if additional work is necessary to meet requirements.
- C. Associated special inspections shall be performed in accordance with the Contract Documents and IBC.

1.91 STORAGE TANK CLOSURE PROCEDURES

- A. Removal of a registered underground chemical or petroleum bulk storage tank shall follow procedures outlined by the NYSDEC and any other applicable regulation. See Section 01 41 05 Regulatory Requirements for more information.
- B. Storage tank closure procedures are generally as follows:
 - 1. Owner shall remove all product to the lowest draw-off point.
 - 2. Contractor shall drain and flush piping into the tank using service or potable water.
 - 3. Contractor shall pump out remaining liquid. Contractor shall dispose of this liquid and sediment mixture, unless otherwise indicated in the Contract documents.
 - 4. For underground storage tanks, unless the tank is to be abandoned in place, Contractor shall excavate for removal of the tank
 - 5. Contractor shall disconnect, temporarily cap, or cap, depending on the method and location of tank removal (or abandonment) and cleaning, all exposed lines on the tank. Cap or plug all lines that were connected to the tank that will no longer be used.
 - 6. Contractor shall purge the tank of all vapors using a NYSDEC approved

method, test the tank atmosphere, and repeat purging as necessary until the tank is purged of all harmful gasses. Test reports shall be provided to Engineer.

7. Contractor shall clean and properly dispose of the tank, if the tank is removed.
8. Where regulations require, for decommissioned underground storage tanks, soil sampling shall be conducted by taking random samples of the surrounding areas. Sampling shall be directed by Engineer and shall be indicative of the average condition of the surrounding soils.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 52 16 FIRST AID FACILITIES

PART 1 GENERAL

1.92 SUMMARY

- A. This section includes requirements for Contractor supplied first aid facilities and supplies.
- B. Related Sections:
 1. Section 01 35 28 – Contractor's Health and Safety Plan

1.93 GENERAL

- A. Each Contractor shall provide all necessary first aid supplies and facilities for general minor injuries and for potential project-specific injuries based on hazards identified in the Contractor Health and Safety Plan (as required in Section 01 35 28 Contractor's Health and Safety Plan).
- B. Contractor shall supply all necessary requirements of OSHA regulations.
- C. At a minimum, Contractor shall have supplies and facilities to:
 1. Clean and sanitize minor injuries.

2. Treat and cover minor cuts.
3. Treat minor burns.
4. Reduce swelling due to injuries.
5. Wash chemicals or particles from eyes.
6. Protect personnel administering first aid or CPR, with appropriate PPE such as gloves, mask, breathing barrier.
7. Prevent progression of effects from excessive heat or cold, if identified as a risk.

PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 52 19 SANITARY FACILITIES

PART 1 GENERAL

1.94 SUMMARY

- A. This section includes requirements for Contractor supplied sanitary facilities.

1.95 GENERAL

- A. Contractor shall provide a sanitary facility (toilet) in accordance with the minimum OSHA Safety and Health requirements. No bathroom facilities will be available for Contractor use from Owner.
- B. At a minimum, Contractor shall provide:
 1. Toilet facilities with toilet paper.
 2. Antibacterial gel or liquid for sanitizing hands.
- C. Upon completion and acceptance of the Project, Contractor shall remove the facilities from the Site and, unless otherwise directed, shall restore all areas affected by installation to a condition equal to or better than that which existed

before installation.

PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 55 10
VEHICULAR ACCESS AND PARKING

PART 1 GENERAL

1.96 SUMMARY

- A. This section includes considerations for access and parking at the Site for vehicles and other motorized equipment.
- B. Related Sections:
 - 1. Section 01 14 17 – Coordination with Owner's Operations
 - 2. Section 01 14 19 – Use of Site

1.97 GENERAL

- A. Contractor shall provide and maintain access to fire hydrants free of obstructions.
- B. Contractor must provide access to all emergency vehicles including, without limitation, ambulances, police cars, and firefighting vehicles and equipment, traveling through or stopping at any part of the Site and will yield, to these vehicles and cease construction activities, as necessary.
- C. Contractor shall maintain the access and parking in such a condition and conduct operations in such a manner that snow and ice are controlled when necessary, and in such a manner that proper drainage is provided.
- D. Contractor shall clean and restore paving and other site features after construction use.

1.98 ACCESS

- A. Contractor shall only access the Site at authorized locations. General access locations shall be determined prior to any work being performed at the Site. Written authorization shall be obtained for any other required access.

- B. All existing roads, streets, sidewalks, and traffic ways shall be kept open for the passage of traffic and pedestrians during the construction period unless otherwise approved by Owner, Engineer, or authority having jurisdiction over same.
- C. When required to cross, obstruct or temporarily close an existing site road, street, sidewalk or traffic way, Contractor shall provide and maintain suitable detours or other approved temporary expedients for the accommodation of traffic. Traffic shall be maintained over a reasonably smooth traveled way which shall be so marked by signs, delineators and/or other methods so that any person unfamiliar with conditions is able to safely ride, drive or walk day or night with a minimum of discomfort and inconvenience. Closings shall be for the shortest time practical and passage will be restored immediately after the completion of the Work impeding access.
- D. In addition, Contractor shall provide and maintain such other warning signs and barricades in other areas as may be required for the safety of those employed in the Work or visiting the Site.
- E. Refer to Section 01 14 19 Use of Site for information on easements and other requirements related to site access.
- F. Owner may need to use access roads for ongoing operations while the Work is being performed. Refer to Section 01 14 17 – Coordination with Owner's Operations for additional information.

1.99 PARKING

- A. Contractor parking shall only occur in authorized areas. Parking areas shall be determined prior to any work being performed at the Site.
- B. Contractor shall not park work or personal vehicles or equipment on private property unless writing authorization is obtained.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 55 33
TRAFFIC CONTROL

PART 1 GENERAL

1.100 SUMMARY

- A. This section includes considerations with respect to traffic control when working in or along a roadway.
- B. Related Sections:
 - 1. Section 01 14 33 – Work in Rights-of-Way
 - 2. Section 01 33 10 – Submittal Procedures
 - 3. Section 01 41 05 – Regulatory Requirements

1.101 GENERAL

- A. Work in and along roads shall include traffic control as required in permits for the Work issued by the agency of jurisdiction. Permits shall be obtained by Contractor in compliance with GC Article 7.09, Section 01 14 33 Work in Rights-of-Way, and Section 01 41 05 Regulatory Requirements.
- B. Traffic control plans shall be submitted in accordance with Section 01 33 10 Submittal Procedures whenever traffic control is required for the Work.
- C. Contractor shall consider the maintenance and protection of traffic and protection of the public during construction equally important as the construction. All work under this bid item shall be performed in accordance with the New York State Department of Transportation Standard Specification Section 619, latest revision.
- D. Contractor shall protect traffic from damage to person and property which may result directly or indirectly from a construction operation. The New York State Department of Transportation Specifications requirements of Section 107 “Legal Relations and Responsibility to Public” shall apply.
- E. Where requirements listed in the Contract Documents differ from the requirements of regulatory agencies or agencies of jurisdiction, the more stringent shall apply. Where requirements are in conflict, the regulatory requirements or requirements of the agency of jurisdiction shall take precedence.

1.102 TRAFFIC CONTROL PLAN REQUIREMENTS

- A. The maintenance and protection of traffic plan shall be prepared by an engineer licensed to practice in New York State, unless otherwise indicated in the Contract Documents or approved in writing.
- B. All existing roads, streets, sidewalks, and traffic ways shall be kept open for the passage of traffic and pedestrians during the construction period unless otherwise

approved by Owner, Engineer, or authority having jurisdiction.

- C. Contractor shall impact traffic as little as possible and shall provide suitable barricades, red lights, "danger" or "caution" signs at all places where the Work constitutes a hazard to the public. All barricades and obstructions along public roads shall be illuminated at night and all lights for this purpose shall be illuminated from sunset to sunrise.
- D. Arrangements for traffic protection and control, detours, barricades, danger signs and warning lights shall be provided in accordance with local jurisdictional authorities' requirements and the Manual of Uniform Traffic Control Devices by New York State Department of Transportation.
- E. Contractor shall provide, install, move, remove and maintain all signs, signals, barricades, flares, lights and all other equipment, service and personnel required to regulate and protect all traffic, and warn of hazards. Remove temporary equipment and facilities when no longer needed.
- F. When required to cross, obstruct or temporarily close an existing site road, street, sidewalk or traffic way, Contractor shall provide and maintain suitable detours or other approved temporary expedients for the accommodation of traffic. Closings shall be for the shortest time practical and passage will be restored immediately after the completion of the Work causing the obstruction or closure. Stopping traffic for more than five minutes shall not be permitted unless specifically authorized in writing from the authority having jurisdiction.
- G. Provide traffic control of haul routes to expedite traffic and to minimize interference with normal traffic.
- H. Traffic shall be maintained over a reasonably smooth traveled way which shall be so marked by signs, delineators or other methods so that any person unfamiliar with conditions is able to safely ride, drive or walk day or night with a minimum of discomfort and inconvenience over all or any portion of the roadway where traffic is maintained.
- I. Contractor shall maintain the traveled way in such a condition and conduct operations in such a manner that snow and ice may be readily controlled by others as and when necessary, and in such a manner that proper drainage is provided.
- J. Contractor shall provide temporary markings in accordance with the New York State Manual of Uniform Traffic Control Devices, as required by the agency having jurisdiction, or as shown on the plans and specifications.
- K. Contractor shall provide watchmen at particularly dangerous locations such as

railroads, heavily traveled roadways and similar locations. Contractor shall provide the necessary traffic control equipment and flagmen for adequate traffic control where traffic is restricted to one (1) lane or where other conditions require or as required by permit conditions.

- L. Contractor shall provide and maintain warning signs and barricades as may be required for the safety of those employed in the Work or visiting the Site.
- M. Contractor shall give 48-hour notice to the fire and police departments, and school districts of his proposed operations including shutdowns.
- N. Contractor shall maintain vehicular and pedestrian traffic and protect the public from damage to person and property, within the limits of the Work, for the duration of the Contract.
- O. Access to private properties over driveways shall be maintained. Contractor shall be liable for any damage to private properties resulting from the Work or temporary access structures. Contractor shall provide ingress and egress to and from intersecting streets, homes, businesses and commercial establishments including any temporary pavement. Contractor shall maintain existing bus stops, if any, so passengers are reasonably accommodated.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION **SECTION 01 57 33** **SECURITY**

PART 1 GENERAL

1.103 SUMMARY

- A. This section includes requirements for Contractor regarding site security.
- B. Related Sections:
 - 1. Section 01 66 00 – Product Storage and Handling Requirements

1.104 GENERAL

- A. During the progress of the Work, and up to the date of final acceptance,

Contractor shall bear all risk of loss and shall be solely responsible for the care and protection of all work and materials associated with this Contract.

- B. Contractor is responsible for security required to protect all work and materials against damage, injury or loss from any cause. Contractor shall take responsibility for any such damage or loss due to lack of security.
- C. Contractor shall supply secure storage facilities for materials involved in the Work in association with Section 01 66 00 Product Storage and Handling Requirements.

PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION SECTION 01 61 00 COMMON PRODUCT REQUIREMENTS

PART 1 GENERAL

1.105 SUMMARY

- A. This section includes requirements for products incorporated into the Work by Contractor.
- B. Related Sections:
 - 1. Section 01 25 13 – Product Substitution Procedures
 - 2. Section 01 33 10 – Submittal Procedures

1.106 GENERAL

- A. No materials or supplies for the Work shall be purchased by Contractor or by any Subcontractor subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by the seller. Contractor warrants that there is good title to all materials and supplies used in the Work.
- B. Each unit of equipment shall have the manufacturer's name or trademark on a corrosion-resistant nameplate securely affixed in a conspicuous place. The manufacturer's name or trademark may be cast integrally with stamp, or otherwise permanently marked upon the item of equipment. Such other information as the manufacturer may consider necessary to complete

identification shall be shown on the nameplate.

- C. All materials or equipment delivered to the Site shall be accompanied by certificates, signed by an authorized officer of the manufacturing company, guaranteeing that the materials or equipment conform to specification requirements. Such certificates shall be immediately turned over to Engineer. Materials or equipment delivered to the Site without such certificates will be subject to rejection.
- D. Products shall be of commercial grade quality unless otherwise specified.
- E. Products shall not contain or produce materials that are known as hazardous, noxious, or harmful in nature. If design warrants such a product, hazards shall be fully disclosed when submitting a shop drawing for the product under Section 01 33 10 Submittal Procedures.
- F. Equipment, materials, and any related information shall be supplied in English units unless otherwise specified. Any data depicted on a nameplate or anything permanently affixed shall be in English units.
- G. Where specific products are not specified, provide standard products of types and kinds that are suitable for the intended purposes and that are usually and customarily used on similar projects under similar conditions. If standard products cannot be determined or if more than one standard product is available, Contractor shall verify use of any product with Engineer.

1.107 SOURCES OF MATERIALS

- A. Upon request, Contractor shall furnish Engineer, in writing, the names and addresses of manufacturers or dealers from whom Contractor intends to secure materials.
- B. Any material ordered or delivered at the Site without prior approval is subject to rejection. Awards made by Contractor and proceeding with work under any item without satisfactory review of the materials, manufacturer or vendor by Engineer is at Contractor's own risk.
- C. Engineer's satisfactory review, when given, will be only on the basis of the manufacturer's experience and similar considerations specified herein, and will in no way imply that the material or equipment submitted will be satisfactory unless full compliance with the Contract Documents is demonstrated to Engineer's satisfaction through the submittal process outlined in Section 01 33 10 Submittal Procedures.
- D. All products and materials used in the Work shall be new stock or procured for

this Project; refurbished or salvaged materials shall not be permitted.

- E. To the fullest extent possible, provide products of the same kind from a single source. Products required to be supplied in quantity shall be the same product and interchangeable throughout the Work. When options are specified for the selection of any of two or more products, the product selected shall be compatible with products previously selected.

1.108 COMPATIBILITY

- A. All supplied equipment and materials shall be compatible. If specified materials are not compatible, Contractor will notify Engineer.
- B. If a Substitution is approved in accordance with Section 01 25 13 Product Substitution Procedures, all installation procedures, associated materials and equipment shall be provided to be compatible with the substitution. It is Contractor's responsibility to ensure compatibility.
- C. Contract Documents will indicate the basis of design. Dimensions and other physical characteristics may slightly vary depending on manufacturer submitted. It is Contractor's responsibility to identify the differences and adjust the Work accordingly or submit modifications for approval. Contractor shall be responsible for the cost of all modifications for equipment or materials that were not the basis of design, unless otherwise stated in the Contract Documents, the basis of design equipment or materials were not available, or their use was determined to be detrimental to the project by Engineer.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION SECTION 01 62 00 PRODUCT OPTIONS

PART 1 GENERAL

1.109 SUMMARY

- A. This section includes product option requirements for products incorporated into the Work by Contractor.

B. Related Sections:

1. Section 01 25 13 – Product Substitution Procedures
2. Section 01 33 10 – Submittal Procedures
3. Section 01 42 00 - References
4. Section 01 61 00 – Common Product Requirements

1.110 GENERAL

- A. Items specified by dimensions shall not exclude the furnishing of such items other than the specified dimensions where the quality, use and serviceability of the material is the same or equal. However, Contractor is responsible for adjusting work according to any differing dimensions as specified in Section 01 61 00 Common Product Requirements.
- B. Where an option is specified for a product and Contractor would like to propose an alternate option, that alternate may be considered a substitution and may be subject to the requirements of Section 01 25 13 Product Substitution Procedures.
- C. Where Contract Documents describe a product, listing characteristics required, with or without use of a brand name, a product shall be provided that has the specified attributes and otherwise complies with specified requirements.
- D. Where Contract Documents require compliance with performance requirements, product(s) shall be provided that comply and are recommended by the manufacturer for the intended application. Verification of manufacturer's recommendations may be by product literature or by certification of performance from manufacturer.
- E. Where Specifications require compliance with a standard, provided product shall fully comply with the standard specified. Refer to general requirements specified in Section 01 42 00 References regarding compliance with referenced standards, standard specifications, codes, practices and requirements for products.
- F. Selected options for products shall be identified in all submittals in accordance with Section 01 33 10 Submittal Procedures.

1.111 PRODUCT SAMPLES

- A. Where Contract Documents require matching a sample, the decision by Engineer or Owner on whether a proposed product matches shall be final. Where no product visually matches, but the product complies with other requirements, comply with Section 01 25 13 Product Substitution Procedures for selection of a matching product in another category.

- B. Where Contract Documents require selection from manufacturer's standard colors, patterns or textures, selections of products will be made by indicated party or, if not indicated, by Engineer. Engineer will select color, pattern and texture from the product line of submitted manufacturer, if all other specified provisions are met.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 65 00
PRODUCT DELIVERY REQUIREMENTS

PART 1 GENERAL

1.112 SUMMARY

- A. This section includes considerations for the delivery of products related to the Work.
- B. Related Sections:
1. Section 01 14 19 – Use of Site
 2. Section 01 33 10 – Submittal Procedures
 3. Section 01 66 00 – Product Storage and Handling Requirements
 4. Section 01 78 45 – Spare Parts and Extra Materials

1.113 GENERAL

- A. Delivery of products shall be scheduled so that storage time on the Site will be minimized.
- B. Deliveries shall only occur during normal working hours unless otherwise approved in writing.
- C. Contractor must have personnel on the Site authorized to accept deliveries when deliveries occur. Owner or Engineer will not accept deliveries of products on behalf of Contractor unless prior written agreement has been obtained.
- D. Contractor contact information shall be provided to shipping company. Owner contact information shall not be used for shipping unless otherwise agreed to in writing.

- E. Locations of deliveries shall conform with Section 01 14 19 Use of Site and any other requirements listed in the Contract Documents.
- F. Products delivered to the Site must be handled and stored in accordance with Section 01 66 00 Product Storage and Handling Requirements.
- G. Contractor shall provide such vehicles, equipment or apparatus that is required to safely and securely, without damage, accept products from the delivery.
- H. Spare parts and extra materials must be delivered to the Site in accordance with Section 01 78 45 Spare Parts and Extra Materials.
- I. Deliveries shall be in conformance with applicable statutes, ordinances, regulations and rulings of proper public authority.
- J. Unnecessary materials or equipment shall not be delivered to the Site.
- K. Deliveries shall not block access in areas of egress of persons or vehicles.

1.114 INSPECTION

- A. Delivered products shall be inspected by Contractor for damage before placing in storage or prior to implementation into the Work. Contractor is responsible for replacement or repair, as determined by Engineer, of damaged products.
- B. Inspect delivered products to ensure that they conform with the Contract Documents and the product approvals obtained in accordance with Section 01 33 10 Submittal Procedures. Products not in compliance with Contract Documents and Shop Drawings will be directly returned to manufacturer by Contractor and shall not be implemented into the Work.
- C. Engineer and Owner have the right to inspect delivered materials.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 66 00
PRODUCT STORAGE AND HANDLING REQUIREMENTS

PART 1 GENERAL

1.115 SUMMARY

- A. This section includes considerations for the storage and handling of products related to the Work or Contractor's execution of the Work.
- B. Related Sections:
 - 1. Section 01 14 19 – Use of Site
 - 2. Section 01 57 33 – Security
 - 3. Section 01 65 00 – Product Delivery Requirements
 - 4. Section 01 77 23 – Post Final Inspection
 - 5. Section 01 78 45 – Spare Parts and Extra Materials

1.116 GENERAL

- A. Products delivered according to Section 01 65 00 Product Delivery Requirements must be handled and stored in such a manner such that no damage to the product shall occur.
- B. Handling and storage shall be in accordance with manufacturer's instructions and any other specific requirements for handling and storage included in the Contract Documents.
- C. Locations of storage shall conform with Section 01 14 19 Use of Site
- D. Contractor is responsible for the secure storage of products, materials and other items used in the Work in accordance with Section 01 57 33 Security.
- E. Spare parts and extra materials must be handled and stored by Contractor in accordance with Section 01 78 45 Spare Parts and Extra Materials. Such products must be stored until written acceptance of the Project.
- F. Contractor is responsible to repair any damage that occurs to products, the Work or adjacent facilities during storage and handling.
- G. Damaged items shall not be used in the Work unless written permission is obtained to allow for use. Damage shall include indentations, rusting or other surface damage or deterioration.

1.117 STORAGE

- A. Contractor shall store his equipment and materials at the Site in a manner acceptable to Owner and Engineer, and in conformance with applicable statutes, ordinances, regulations and rulings of proper public authority. Contractor shall enforce the instructions of Owner and Engineer respecting signs, advertisements, fire and smoking.

- B. Unnecessary materials or equipment shall not be stored on the Site.
- C. Store apparatus, materials, supplies and equipment in a safe, orderly manner that does not interfere with the Work or normal operations of the surrounding areas.
- D. Storage shall not block access in areas of egress.
- E. Store materials that are subject to injury by exposure to weather, theft, breakage or otherwise.
- F. Limited storage may be available on the Site. Owner will not be responsible for any items stored in their facilities.
- G. Store products in such a manner that it can be easily inspected. Inspect stored products at regular intervals to ensure that damage has not occurred or is not occurring. Engineer has the right to inspect stored materials at any time.
- H. Materials stored upon streets or roads shall be so placed as to cause minimum obstruction to traffic and the public. Materials stored upon streets or roads are subject to the approval of the agency having jurisdiction of the roadway. Materials shall not be placed within 10 feet of fire hydrants. Gutters and drainage inlets shall be kept unobstructed at all times.
- I. Contractor shall not store materials or encroach upon private property without the written consent of the owners of such private property.
- J. Contractor storage facilities or apparatus, or any items stored in Owner facilities, must be removed in a timely manner following the Final Inspection. Refer to Section 01 77 23 Post Final Inspection for any requirements.

1.118 HANDLING

- A. Contractor shall place upon the Work, or any part thereof, only such loads as are consistent with the safety of that portion of the Work.
- B. Contractor shall provide such vehicles, equipment or apparatus that is required to safely and securely, without damage, handle materials associated with the Work.
- C. Owner may have equipment or apparatus that can assist in the handling of products used in the Work. Owner equipment and apparatus cannot be used without prior written consent. When Owner equipment or apparatus is used, Contractor must obtain written certification of the condition of such before and after use. Contractor is responsible to repair damage to Owner equipment or apparatus, and such repair must be completed by a certified repair specialist, as recommended by the manufacturer.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 71 34
PROTECTION OF THE WORK AND PROPERTY

PART 1 GENERAL

1.31 SUMMARY

- A. This section includes requirements associated with protection of the Work, public property, private property, and Owner facilities and property.
- B. Related Sections:
 - 1. Section 01 14 17 – Coordination with Owner’s Operations
 - 2. Section 01 74 10 – Cleaning and Waste Management

1.32 GENERAL

- A. Contractor shall be responsible for taking all precautions, providing all programs, and taking all action necessary to protect the Work and all public and private property and facilities from damage.
- B. Contractor shall not, except for written consent from proper parties, enter or occupy with workers, tools, materials or equipment, privately-owned land. Operations are to be restricted to the Site described in the Contract Documents.
- C. Contractor shall assume full responsibility for the preservation of all public and private property or facilities on or adjacent to the Site. Any direct or indirect damage is done by or on account of any act, omission, neglect or misconduct in the execution of the Work by Contractor shall be restored by Contractor to a condition equal to or better than that existing before the damage was done.
- D. Where work includes direct or indirect contact with wastewater, Contractor shall take precautions to prevent unnecessary contact between wastewater and the Work, facilities or property.

1.33 SITE REQUIREMENTS

- A. In order to prevent damage, injury or loss, Contractor’s actions shall include, but

not be limited to, the following:

1. Coordinate work with Owner's operations in accordance with Section 01 14 17 Coordination with Owner's Operations.
 2. Place upon the Work or existing facilities only such loads as are consistent with the capacity of the components to bear those loads.
 3. Clean up frequently all refuse, rubbish, scrap materials, and debris caused by Contractor operations in accordance with Section 01 74 10 Cleaning and Waste Management.
- B. Contractor shall be responsible for closing, roping off, or otherwise controlling access to the work areas during construction to prevent damage to the Work and property.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 73 19 INSTALLATION

PART 1 GENERAL

1.34 SUMMARY

- A. This section includes requirements regarding installation of components of the Work.
- B. Related Sections:
 1. Section 01 33 10 – Submittal Procedures

1.35 GENERAL

- A. Contractor shall supply all necessary tools and machinery appropriate for installation of the Work. Owner tools, equipment, machinery or other facilities shall not be used unless otherwise specified or approved in writing.
- B. Contractor shall have on-hand sufficient tools and machinery of ample capacity to

facilitate the Work and to handle all emergencies normally encountered in work of this character. Contractor shall only use tools or machinery intended to perform the necessary task.

- C. Contractor shall install components at the time and under conditions that will ensure the best possible results. Contractor shall maintain conditions required for product performance until acceptance of the Work.
- D. Work components shall be installed at the locations and elevations shown on the Plans unless directed otherwise by Engineer. Contractor shall make vertical work plumb and horizontal work level, unless otherwise specified.
- E. Where space is limited, Contractor shall orient work components to provide for maximum space to perform maintenance and for ease of removal of components.
- F. Manufacturer's installation instructions, where available, shall be followed.

1.36 EQUIPMENT INSTALLATION

- A. All equipment shall be correctly aligned, leveled and adjusted for satisfactory operation and shall be installed so that proper and necessary corrections can be made readily between the various units.
- B. Install all equipment strictly in accordance with the recommendations of the manufacturer's instructions. Contractor shall provide written installation instructions in accordance with Section 01 33 10 Submittal Procedures. Contractor shall have such written instructions at the Site and shall refer to those instructions throughout installation.
- C. Contractor shall furnish, install and protect all necessary guides, track rails, bearing plates, anchor and attachment bolts and all other appurtenances needed for the installation of the devices included in the equipment specified. Anchor bolts shall be made of ample size and strength for the purpose intended. Anchor bolts in submerged locations shall be of non-corrosive materials of the required strength.
- D. Contractor shall furnish all oils and greases for initial operation, and shall give to Engineer a list of the lubricants used on each item of equipment. Where possible, all lubricants shall be obtained from one manufacturer, approved by Owner. Each item of equipment shall be tagged to show the date, name and type of lubricant used.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 73 24 CONNECTIONS TO EXISTING FACILITIES

PART 1 GENERAL

1.37 SUMMARY

- A. This section includes requirements regarding connecting to Owner facilities.
- B. Related Sections:
 - 1. Section 01 14 17 – Coordination with Owner's Operations
 - 2. Section 01 71 34 – Protection of Work and Property

1.38 GENERAL

- A. All connections to existing facilities shall be coordinated with Owner in accordance with Section 01 14 17 Coordination with Owner's Operations.
- B. All existing facilities shall be protected in accordance with Section 01 71 34 Protection of Work and Property.
- C. Contractor shall plan and prepare for all connections to existing facilities in advance. Contractor shall have everything readily available to complete the connection, in the shortest time possible, and to handle all emergencies normally encountered in such a connection.
- D. Contractor shall review connection plan with Engineer in advance of any connection attempt.

1.39 ELECTRICAL FACILITIES

- A. Connections to existing electrical facilities must meet all applicable codes.
- B. Connection locations shall not be changed unless approved in writing or directed by Engineer.
- C. Contractor shall verify electrical capacities prior to connection and alert Engineer of any discrepancies.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

**SECTION 01 73 29
CUTTING AND PATCHING**

PART 1 GENERAL

1.40 SUMMARY

- A. This section includes procedural requirements for removal of in-place construction necessary to permit installation of other work (cutting) or fitting and repair work required to restore surfaces to original conditions after installation of other work (patching).
- B. Related Sections:
 - 1. Section 01 33 10 – Submittal Procedures
 - 2. Section 01 71 34 – Protection of Work and Property

1.41 GENERAL

- A. Contractor is responsible for all cutting, fitting, and patching required for alteration work or to correct or modify newly installed construction, including without limitation:
 - 1. Completing the Work for integration with other work.
 - 2. Uncovering portions of the Work to provide for installation of other work.
 - 3. Removing and replacing defective work.
 - 4. Removing and replacing work not in conformance with the Contract Documents.
 - 5. Removing samples of installed work as necessary for testing.
 - 6. Providing penetrations for installation of materials (such as piping and electrical conduit).
- B. Contractor shall not perform cutting and patching operations that could void any

warranty.

- C. Contractor shall conform with Section 01 71 34 Protection of Work and Property when performing any cutting or patching operation.
- D. Contractor shall not cut and patch construction in a manner that results in visual evidence of cutting and patching. Contractor shall not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would degrade the building's aesthetic qualities.
- E. Contractor shall remove and replace visually unsatisfactory cut and patched construction.

1.42 CUTTING

- A. Prior to cutting, Contractor shall determine all utility, mechanical, and electrical services that will be impacted. Contractor shall coordinate any relocation or loss of service with Engineer.
- B. Where cutting will impact structural reinforcement, Contractor shall submit drawings for reinstallation of reinforcement during patching in accordance with Section 01 33 10 Submittal Procedures. Contractor shall not cut and patch structural elements in a manner that could change the load-carrying capacity or load-deflection ratio. A structural element includes any load-bearing, lateral force-resistant member, and wind or seismic movement resisting construction.
- C. Contractor shall take precautions and exercise care to ensure work is neatly removed and without movement or settlement to the remainder of the building, or any other damage to property or facilities. Contractor is liable for any damage caused as a result of their operations.

1.43 PATCHING

- A. Only products approved in accordance with Section 01 33 10 Submittal Procedures shall be used for patching.
- B. Contractor shall not patch in a manner that could change load-carrying capacity; which results in a reduction of capability to perform as intended; or that results in increased maintenance or decreased operational life or safety.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

**SECTION 01 74 10
CLEANING AND WASTE MANAGEMENT**

PART 1 GENERAL

1.44 SUMMARY

- A. This section includes requirements for progress cleaning, site management, construction waste management and disposal and final cleaning at the Site.
- B. Related Sections:
 - 1. Section 01 77 23 – Post Final Inspection

1.45 GENERAL

- A. Contractor is responsible for progress cleaning, construction waste management and disposal, and final cleaning related to, without limitation:
 - 1. Any area of the site where the Work is in progress or completed.
 - 2. Facilities in use by Contractor, including Owner's facilities.
 - 3. Areas of the site where those under the control of Contractor park, congregate or otherwise use the Site.
 - 4. Areas of the Site used by Contractor for access.
- B. During construction of the Work, Contractor shall remove material, debris and rubbish if directed by Engineer or Owner.
- C. Contractor shall remove all surplus materials and temporary structures when no longer in use.
- D. Off-site disposal of construction and demolition debris shall be handled in accordance with all applicable regulations. In no case shall such debris be disposed of in water bodies, flood plains or wetlands.
- E. Contractor shall provide the appropriate containers for construction waste and those shall be the only containers used by Contractor, unless otherwise agreed to in writing.

1.46 FINAL CLEANING

- A. Prior to the inspection described in Section 01 77 23 Post Final Inspection, the Work and the Site shall be cleaned and all excess materials shall be removed from the Site. Remove dirt, dust, litter, corrosion, solvents, discursive paint, stains, and extraneous markings from all areas of and components included in the Work.
- B. At the conclusion of the Work and before final payment, all equipment, tools, temporary structures, and materials belonging to Contractor shall be removed from the Site. All water, dirt, rubbish, or any other foreign substances shall be removed and properly disposed of.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 75 11 CHECKOUT AND STARTUP PROCEDURES

PART 1 GENERAL

1.119 SUMMARY

- A. This section describes general requirements related to testing and start-up of equipment. Specific requirements may be detailed in technical specifications.
- B. Related Sections:
 - 1. Section 01 78 23 – Operations and Maintenance Data
 - 2. Section 01 78 45 – Spare Parts and Extra Materials
 - 3. Section 01 79 23 – Instruction of Operations and Maintenance Personnel

1.120 GENERAL

- A. Prior to field testing or start-up of equipment, Contractor shall supply all required materials in accordance with Section 01 78 45 Spare Parts and Extra Materials.
- B. Contractor shall perform field tests of equipment as required in the technical specification sections.
- C. Contractor shall arrange for the equipment manufacturer to furnish the services of a qualified representative where specified.

- D. Contractor shall furnish all labor, material and instruments to perform all preliminary field tests of equipment and make all necessary changes, adjustments and replacements required to comply with the requirements of the Contract Documents.
- E. Contractor shall furnish all labor, equipment, instruments, materials, fuel, lubricants, energy, water, and all other incidentals necessary for the final acceptance tests.
- F. Contractor shall perform final acceptance tests prior to the startup of the equipment or system. Manufacturer's representative shall oversee the final acceptance test to certify that the equipment has been installed and tested to their satisfaction, where applicable.

1.121 MANUFACTURER'S REPRESENTATIVE

- A. Where specified for equipment items, the manufacturer or supplier will furnish the services of experienced and appropriate personnel to perform the following:
 - 1. Field supervision during installation, or inspection upon completion of installation, to ensure proper installation of the equipment or system prior to start-up. The representative shall certify installation, recommend or adjust, and supervise field and final acceptance testing of equipment.
 - 2. Equipment start-up. The manufacturer's representative shall provide certification of equipment compliance.
 - 3. Operating and maintenance instruction to Owner, in accordance with Section 01 79 23 Instruction of Operations and Maintenance Personnel, in conjunction with equipment start-up. Prior to or at instruction, representative shall provide all operation and maintenance data to Owner in accordance with Section 01 78 23 Operations and Maintenance Data.
 - 4. Follow-up assistance to assure that Owner properly understands the long-term operation and required maintenance. Follow-up assistance may require visitation from a qualified representative during the warranty period.
- B. The time period for the supervision and instruction from the manufacturer is estimated in the technical specification sections.
 - 1. The duration of on-site visit(s) from equipment representatives shall be sufficient to accomplish the work, as required dependent upon the type of equipment or system, regardless of time stated in technical specifications.
 - 2. Contractor shall be responsible for any additional time required for the

manufacturer's representative to resolve equipment installation or operational problems that are not caused by Owner. Such problems are, without limitation, a lack of coordination between the supplied equipment and Contract Documents, a lack of coordination with other Contracts, incorrect dimensions, incorrect electrical wiring or connections, inadequate programming of controls, improper installation, or improper equipment performance.

- C. Following the representative visit during start-up, the manufacturer shall then supply a written certification jointly to Owner, Engineer, and Contractor, on the manufacturer's stationary, stating that the equipment supplied or manufactured by their organization has been properly installed and tested to their satisfaction, in accordance with their recommendations, that all final adjustments have been made, and that the trial operation has been satisfactory.
- D. Certification shall include date of final acceptance field test, as well as, a listing of all persons present during the tests.

1.122 TESTING

- A. Preliminary field tests shall demonstrate that equipment is installed in the location and orientation specified in the equipment manual and as specified in the Contract Documents, and that the equipment is prepared for operation in strict accordance with the manufacturer's recommendations.
- B. Final acceptance tests shall consist of the following checks as a minimum:
 - 1. That equipment is adjusted, aligned, balanced, lubricated and properly installed.
 - 2. That equipment meets the specified performance requirements in every detail and performs the intended function without any unusual vibration, noise or other signs of possible malfunction.
 - 3. Perform motor field tests to verify rotation, voltage, current, motor insulation resistance and other parameters as required.
 - 4. Where equipment is capable of operation in more than one function, each operational mode or function shall be checked for proper performance.
 - 5. All controls, both mechanical and electrical, shall be checked individually for proper connection and operation.
 - 6. Unless otherwise stated in writing, all equipment, systems, and controls shall be checked with both utility power source and with backup generation power

source.

7. All instrumentation shall be checked for proper functionality.
8. All alarms are verified and properly transmitted through the telemetry system and/or SCADA system.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 77 19 CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.123 SUMMARY

- A. This section describes general requirements related to administrative procedures to close out an individual Contract.
- B. Related Sections:
 1. Section 01 29 76 – Progress Payment Procedures
 2. Section 01 78 23 – Operations and Maintenance Data
 3. Section 01 78 39 – Project Record Documents
 4. Section 01 78 45 – Spare Parts and Extra Materials
 5. Section 01 79 23 – Instruction of Operations and Maintenance Personnel

1.124 GENERAL

- A. Closeout of the Contract cannot occur until the respective Contractor complied with all requirements in accordance with Section 01 78 45 Spare Parts and Extra Materials.
- B. Closeout of the Contract cannot occur until the respective Contractor provided all required materials in accordance with Section 01 78 23 Operation and Maintenance Data, submitted record documents in accordance with Section 01 78 39 Project Record Documents, and performed all required instruction in accordance with Section 01 79 23 Instruction of Operations and Maintenance Personnel.

- C. Closeout will only occur after Substantial Completion, as defined and according to procedures established in the General Conditions, and after all other components of the Contract has been completed.

1.125 PROJECT COMPLETION

- A. Upon completion of the Work, Engineer shall file a written Statement of Completion with Owner, and with Contractor, as to the entire amount of work performed and compensation earned by Contractor, including any extra work and excluding any work not performed or contingency allowances not used.
- B. Failure to complete the Work as described in the Contract Documents, as determine by Engineer, may be cause for adjustment in the Contract Price under the final Change Order.
- C. Contractor shall guarantee the Work, including parts, labor, materials and equipment, in accordance with GC Article 15.08 and as amended by the Supplementary Conditions.
- D. Owner, Engineer and Contractor shall each sign and date the Statement of Completion attesting that the Work has been completed satisfactory and the final compensation amount is correct.
- E. The Work must be accepted on or before the Contract Times expire, as established in the Contract and with any approved extensions thereof. Any change in the Contract Times to be included in the final Change Order must be approved in writing before the Contract Times expire.
- F. When the Project has been completed in accordance with the Contract Documents, within the established time of completion, and has been accepted, final payment will be recommended in accordance with the procedures in GC Article 15.06, and as amended by the Supplementary Conditions.

1.126 CLOSE OUT DOCUMENTS

- A. Upon completion of the Work, Contractor shall be required to execute a Public Improvement Contract Certification for (PICC-2) certifying that the provisions of Section 220-a of the New York State Labor Law have been complied with and that all laborers, workers or mechanics employed by Contractor on this Project have been paid the applicable prevailing wage rates and supplements.
- B. Upon completion of the Work, all Subcontractors to Contractor shall be required to execute a Public Improvement Contract Certification form (PICC-1) certifying that the provisions of Section 220-a of the New York State Labor Law have been complied with and that all laborers, workers or mechanics employed by the

Subcontractor for this Project have been paid the applicable prevailing wage rates and supplements.

- C. Contractor shall furnish to Owner duplicate copies of all weekly payroll certifications if paper copies are required or requested, otherwise electronic copies should be uploaded to LCP Tracker, including those of all Subcontractors, that were not previously submitted. Payrolls shall be submitted in accordance with the procedures in Section 01 29 76 Progress Payment Procedures.
- D. Contractor shall complete and submit all necessary Contract closeout certifications and affidavits as required by Owner to include, without limitation:
 - 1. Form of Affidavit
 - 2. Form of Guarantee
 - 3. Engineer's Certificate
 - 4. Prime Contractor Certificate (PICC-2)
 - 5. Subcontractor Certifications (PICC-1)
 - 6. Final Change Order
 - 7. All required Equal Employment Opportunity (EEO) Reports
 - 8. All required EEO Certificates
 - 9. Weekly Payroll Certifications
- E. All documents must be completed and executed by Contractor prior to Contract close-out and release of final payment. Final payment will not be issued until all forms have been properly executed by Contractor and all their Subcontractors, as applicable.

1.127 FINAL PAYMENT

- A. The acceptance by Contractor of final payment shall be, and shall operate as, a release to Owner of all claims and all liability to Contractor for all things done or furnished in connection with the Work, and for each act and neglect of Owner and others relating to or arising out of the Work. No payment, however, final or otherwise, shall operate to release Contractor or his sureties from any obligations under this Contract, the Performance Bond or the Payment Bond.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 77 23
POST-FINAL INSPECTION

PART 1 GENERAL

1.128 SUMMARY

- A. This section describes requirements after the final inspection, performed in accordance with GC Article 15.05, in order to complete the Contract for final payment, in accordance with GC Article 15.06.
- B. Related Sections:
 - 1. Section 01 78 23 – Operations and Maintenance Data
 - 2. Section 01 78 45 – Spare Parts and Extra Materials

1.129 GENERAL

- A. Acceptance of the Work by Owner's representative during the Work, or Engineer during final inspection, shall not relieve Contractor from their obligation to complete all work included in the Contract.
- B. Following the final inspection, Contractor shall promptly remove from the premises all defective work, determined by Engineer in the final inspection as failing to conform to the Contract.
- C. Contractor shall bear the expense of correcting work damaged or destroyed by any worker under their control at any point during the Work, including damage due to removal of defective work and any damage after final inspection.
- D. Contractor shall promptly complete remaining work identified by Engineer in the final inspection, in accordance with the Contract.
 - 1. Owner's representative must be present to witness correction or completion of remaining work, unless otherwise approved in writing.
 - 2. Engineer will determine if remaining work has been completed in accordance with the Contract Documents.
 - 3. Final paperwork will not be issued until all Contract work is complete, as determined by Engineer.

- E. Contractor shall supply any remaining materials in accordance with Section 01 78 45 Spare Parts and Extra Materials or final payment will be delayed.
- F. Contractor shall supply any remaining operations and maintenance data in accordance with Section 01 78 23 Operations and Maintenance Data or final payment will be delayed.
- G. Neither final inspection, nor issuance of the final certificate or payment, nor any acceptance of the Work, shall relieve Contractor of responsibility correcting any defective work associated with the Contract or supplying work not yet completed, in accordance with GC Article 15.08.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SECTION 01 78 23 OPERATION AND MAINTENANCE DATA

PART 1 GENERAL

1.130 SUMMARY

- A. This section includes administrative and procedural requirements for preparing operation and maintenance data for products incorporated into the Work by Contractor.
- B. Related Sections:
 - 1. Section 01 33 10 – Submittal Procedures
 - 2. Section 01 79 23 – Instruction of Operations and Maintenance Personnel
 - 3. Section 01 91 13 – General Commissioning Requirements

1.131 GENERAL

- A. Contractor shall supply any specific operation and maintenance, emergency, systems, equipment, and product manuals and data that is specified in the technical specification sections or supplied by the manufacturer.
- B. Engineer and Owner will review the content and organization of the manual(s) provided. Manual(s) shall be submitted according to Section 01 33 10 Submittal

Procedures.

- C. Two (2) paper copies and one (1) digital copy of the final manual shall be submitted directly to Owner. Digital copy must be transmitted via email or web-based project management software, share site, or website.
- D. Incomplete or inadequate manuals will be returned to the Contractor for correction and resubmission. Manuals must be in acceptable form prior to full payment.
- E. All instruction materials to be used in accordance with Section 01 79 23 Instruction of Operations and Maintenance Personnel shall be included in the manual.
- F. Operations and maintenance manuals shall be submitted prior to commissioning in accordance with Section 01 91 13 General Commissioning Requirements.

1.132 CONTENTS

- A. Title Sheet: Each manual shall have a title page indicating the full name of the Project, the location, the Owner, Contract Designation under which the equipment or system was provided, and the name, address and telephone number of the local representative for each piece of equipment, as well as home office information. This sheet shall also contain any necessary identifying information required for repair service.
- B. Index: An index should follow the title sheet and contain each section or separate title contained in the Manual. Drawings are to be listed by title and drawing number. Pages should be consecutively numbered.
- C. Guarantee/Warranty: A copy of the guarantee/warranty from the product manufacturer is to be provided if standard manufacturer's guarantee/warranty is required. The guarantee/warranty section shall also contain information on applying for assistance under the guarantee/warranty. Guarantee/warranty shall be signed and in effect.
- D. Equipment Sections: Information shall be organized by section, each section covering a specific equipment item. Section shall be listed in a Table of Contents at the front of each volume. Each section shall contain as a minimum:
 - 1. Section Table of Contents.
 - 2. Descriptive data including catalog cuts, technical bulletins, diagrams, drawings, charts, pump curves, wiring diagrams, and all other pertinent information describing the location, operation, maintenance, lubrication and

other information necessary for the Owner to establish an effective operating and maintenance program.

3. Complete parts list that includes all component parts and parts diagrams for all equipment showing manufacturer's identification numbers for each part.
 4. Copies of approved shop drawings, where required, to adequately describe interrelation of components within a system.
 5. Complete electrical and control schematics with labeled terminations and all field changes.
 6. List of special tools required for operation and maintenance.
 7. List of spare parts supplied with the equipment, identified by manufacturer's part numbers, and a list of recommended spare parts and numbers.
 8. Source of replacement parts and address and telephone number of the manufacturer's service representative.
- E. Schedules: At the end of each section, the Contractor shall include detailed maintenance and lubrication schedule for all equipment covered in the section. Schedule shall include the following, as a minimum, for each equipment item:
1. List and frequency of maintenance activities, other than lubrication.
 2. Lubrication frequency and application points.
 3. Lubricant type (weight of grade and recommended manufacturer) and method of application.

1.133 FORMAT

- A. Electronic manuals and data shall be PDF files readable by the most recent version of Adobe software. All contents listed in the manual index shall appear as bookmarks in the document.
- B. Use electronic files prepared by the manufacturer where available.
- C. Any scanned documents shall be readable while minimizing file size.
- D. Paper copies of the manuals and data shall be bound in a manner such that none of the contents are loose or can fall out of the binding. All bindings and covers shall be durable and water proof. Dividers with tabs shall be used to separate sections.
- E. All drawings shall be provided in the size intended for the drawing to be viewed.

Drawings shall not be minimized or reduced for inclusion in the manual. If drawings cannot be provided as foldouts, provide a labeled envelope for each drawing that is bound within the manual.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION SECTION 01 78 39 **PROJECT RECORD DOCUMENTS**

PART 1 GENERAL

1.134 SUMMARY

- A. This section includes administrative and procedural requirements for preparing and supplying record documents of the Work done by Contractor.
- B. Related Sections:
 - 1. Section 01 33 10 – Submittal Procedures
 - 2. Section 01 77 19 – Closeout Requirements

1.135 GENERAL

- A. At completion of the work, all record field sketches and diagrams shall be submitted to the Engineer for his review according to Section 01 33 10 Submittal Procedures.

1.136 CHANGES TO RECORD

- A. Examples of type of changes which could occur and information that is to be recorded, without limitation, are:
 - 1. Changes in mechanical trades components (electrical, heating, ventilating, plumbing, instrumentation) and measured location of all utilities or trade components concealed from view with references to visible and accessible feature of the structure.
 - 2. Final location and manufacturer information of all equipment.
 - 3. Change in materials, such as pipe material and equipment.

4. Final wiring diagrams of all control panels, electrical panels and equipment panels including conduit sizes and wiring.
5. Final wiring diagrams of all instrumentation including conduit sizes and wiring.

1.137 FORMAT

- A. Owner will use Contractor record field sketches to create the documents for the Project.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION
SECTION 01 78 45
SPARE PARTS AND EXTRA MATERIALS

PART 1 GENERAL

1.138 SUMMARY

- A. This section includes requirements for supplying replacement parts and materials not used in the Work but required in the technical specifications.
- B. Related Sections:
 1. Section 01 26 10 – Contract Modification Procedures
 2. Section 01 33 10 – Submittal Procedures

1.139 GENERAL

- A. Specified materials may differ from manufacturer's spare parts. Contractor is to supply materials listed. Where specific materials are not listed, Contractor shall provide standard spare parts as recommended or provided by the manufacturer.
- B. If specialized tools are required to maintain equipment included in the Work, Contractor shall supply specialized tools. Contractor shall, unless otherwise stated, furnish with each type, kind or size of equipment, one complete set of suitably marked high-grade special tools and appliances which may be needed to adjust, operate, maintain or repair the equipment.

- C. If Contractor shall incur an additional cost for supplying materials or tools not listed in the Contract Documents, Contractor shall submit a Request for Change as defined and described in Section 01 26 10 Contract Modification Procedures prior to purchase of the materials.

1.140 SUBMITTALS

- A. Contractor shall furnish spare parts data for each equipment item. The information shall be included in the equipment submittal in accordance with Section 01 33 10 Submittal Procedures.
- B. Data shall include a complete list of parts and supplies which may be subject to breakdown, with current unit prices and source of supply; a list of parts and supplies that are either normally furnished at no extra cost with the purchase of the equipment and a list of additional items recommended by the manufacturer to assure efficient operation for a period of 120 days at the particular installation.
- C. The foregoing shall not relieve Contractor of any responsibilities under any guarantee or relieve the manufacturer of any responsibilities under any warranty.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.2 TRANSFER OF MATERIALS

- A. Unless otherwise authorized in writing, Contractor shall store spare parts and extra materials as recommended by the manufacturer until after Substantial Completion.
- B. All materials, including special tools and appliances, shall be appropriately kept and transferred in an appropriate storage container. Each storage container shall be labeled with the materials contained within and the equipment installed in the project that the materials are associated with. The label shall be securely affixed to the container.
- C. All materials, including special tools and appliances, shall be appropriately labeled. Where possible, each piece of equipment shall be provided with a name plate, securely fastened in place and clearly inscribed with the manufacturer's name, year of manufacturer, and principal rating data. All other materials shall be individually labeled with identification as to the part name and number as well as the piece of equipment it is associated with.
- D. After Substantial Completion, all spare parts and extra materials shall be delivered to Owner. Contractor shall obtain the delivery address from Owner.

- E. All materials shall be delivered with a record of transmittal. This record of transmittal shall include the following:
1. Date of delivery.
 2. Address materials are delivered to.
 3. Contractor name, address, contact person and telephone number.
 4. Part numbers and description for each and every item in the delivery.
 5. Origin of the materials or original packing list from manufacturer.
 6. Typed or written name and signature of person making the delivery. If the delivery is made by a third party, the delivery company name, address, and telephone number shall be included.
 7. Lines for written name and signature of Owner representative accepting the delivery.
- F. Contractor shall distribute a copy of the record of transmittal to Engineer and Owner within 3 days of delivery, in accordance with Section 01 33 10 Submittal Procedures.
- G. If there is no record of transmittal received by Engineer and Owner, it will be assumed that the delivery was not made and Contractor will be responsible for supplying any missing materials.
- H. Contractor is responsible for obtaining a written name and signature of Owner representative accepting the delivery. If there is no record of delivery acceptance, it will be assumed that the delivery was not made and Contractor will be responsible for supplying any missing materials.
- I. Owner may reject delivery if:
1. Materials are delivered to the wrong address.
 2. Materials are damaged in any way.
 3. Materials are not transferred in appropriate containers.
 4. Materials are not labeled properly.
 5. The record of transmittal is not complete or contains irreconcilable errors.
 6. Delivery record of transmittal does not match the materials delivered.

- J. Owner may accept delivery of partial shipments. Acceptance of partial shipments does not relieve Contractor from supplying the remaining materials.

END OF SECTION

SECTION 01 79 23

INSTRUCTION OF OPERATIONS AND MAINTENANCE PERSONNEL

PART 1 GENERAL

1.141 SUMMARY

- A. This section includes requirements for instructing operations and maintenance personnel on the operation and maintenance of supplied components of the Work.
- B. Related Sections:
1. Section 01 33 10 – Submittal Procedures
 2. Section 01 75 11 – Checkout and Startup Procedures
 3. Section 01 78 23 – Operations and Maintenance Data

1.142 GENERAL

- A. Where so designated in the technical specifications, the manufacturer or supplier will furnish instruction on the operation and maintenance of the specified equipment.
- B. Technical specifications may include both equipment start-up, in accordance with Section 01 75 11 Checkout and Startup Procedures, and operating/maintenance instruction in the number of days specified. This number shall be considered a minimum. Contractor shall include the amount of time and sufficient to accomplish the both instruction and installation.
- C. Instruction on operation and maintenance shall cover all pertinent information supplied in accordance with Section 01 78 23 Operations and Maintenance Data. Written description of the items covered during instruction shall be provided to individuals at the time of instruction, regardless if such materials are included in the operation and maintenance data.
- D. Contractor shall supply follow-up instruction on maintenance and operation as required in the technical specifications, at the interval(s) specified.

1.143 MANUFACTURER'S REPRESENTATIVE

- A. Where so designated, the manufacturer or supplier will furnish the services of a representative certified by the manufacturer to perform instruction. A summary of required instruction is included in Table 1- 01 79 23.

- B. The manufacturer's representative shall supply certification of instruction to every individual present and submit a roster of individuals instruction to the Engineer, within 3 days of instruction. The roster shall be submitted in accordance with Section 01 33 10 Submittal Procedures.
- C. Instruction shall be designed for any number of individuals that are present to achieve the same level of understanding. If attendance will be limited, to obtain a thorough understanding of the operation and maintenance Contractor shall request the number of attendees and plan multiple sessions when necessary. Contractor shall provide all sessions required to train the designated number of personnel assigned by Owner.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

Table 1 – 01 79 23

Technical Specification Section	Equipment Description	Number of Hours/Days

END OF SECTION SECTION 01 91 13 GENERAL COMMISSIONING REQUIREMENTS

PART 1 GENERAL

1.144 SUMMARY

- A. This section includes requirements for commissioning the Work.
- B. Related Sections:
1. Section 01 33 10 – Submittal Procedures
 2. Section 01 75 11 – Checkout and Startup Procedures

1.145 GENERAL

- A. Commissioning is the process of ensuring that all components and systems included in the Work perform interactively as intended by, and meet all the requirements of, the Contract Documents.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

3.3 OPERATIONS COMMISSIONING PLAN

- A. Commissioning includes testing in accordance with Section 01 75 11 Checkout and Startup Procedures and the requirements of the technical specifications.
- B. Contractor shall notify Engineer and Owner that operational equipment and systems are ready to be commissioned. Engineer shall coordinate, within 3 days of notification, with Contractor and Owner to determine a schedule for commissioning.
- C. The various items of equipment and related work shall be placed in operation by Contractor, in coordination with other Contracts as necessary, to satisfactorily demonstrate that the Work will operate in accordance with the intent of the Contract Documents. Operation shall continue for a minimum of 24 hours and shall be documented and certified by Contractor and verified by Engineer.
- D. If any deficiencies are found, items of non-compliance with the Contract Documents shall be documented and deficiencies shall be resolved, with resolutions documented.
- E. If any deficiency is unable to be resolved during any phase of commissioning, Engineer will determine the impact on commissioning and whether or not the phase was successful. Regardless of the determination, all deficiencies must be immediately.

3.4 COMMISSIONING REPORT

- A. After successful commissioning, a commissioning report shall be submitted in accordance with Section 01 33 10 Submittal Procedures. The report shall include:
 - 1. Inspections performed.
 - 2. The actual performance of the components and systems in comparison to the

requirements listed in the Contract Documents.

3. All testing and diagnostic records from any time during the Work and commissioning.
4. Monitoring information including, without limitation, date, time, results (including units) and factors that impact performance.
5. Record of deficiencies and resolutions.
6. A summary of commissioning activities.

END OF SECTION

TECHNICAL SPECIFICATIONS

THIS IS A NEW YORK STATE PREVAILING WAGE JOB. REFER TO PRC# 2025013710

THE SCOPE OF WORK, WORK LOCATIONS, AND GENERAL REQUIREMENTS CAN BE FOUND IN THE ATTACHED SPECIFICATIONS.

PLEASE REFER TO THE ENCLOSED DRAWINGS THAT HAVE BEEN PROVIDED WITH THE BID ALONG WITH THE SPECIFICATIONS.

THIS PROJECT WILL BE SUBJECT TO FUNDING AVAILABILITY AND THE COUNTY RESERVES THE RIGHT TO DELETE WORK FROM THE CONTRACT.

ALL CONTINGENCY FUNDS MUST BE APPROVED IN ADVANCE IN WRITING BY THE COUNTY ENGINEER.

CONTRACTORS AND SUBCONTRACTORS SHALL BE REGISTERED WITH NEW YORK STATE PRIOR TO BIDDING ON PUBLIC WORK PROJECTS: <https://dol.ny.gov/contractor-and-subcontractor-registry-landing>

FOR QUESTIONS CONTACT:

CHRISTOPHER FIUME, P.E., COORDINATOR-SEWER CONSTRUCTION PROJECTS, (716) 858-6586 or EMAIL (CHRISTOPHER.FIUME@ERIE.GOV).

INSPECTION OF CATHODIC PROTECTION SYSEMS AT SANITARY SEWERAGE PUMPING STATIONS IN ERIE COUNTY SEWERS DISTRICTS (ECSD) NO. 2, NO. 4, AND NO. 6.

PART 1 – CATHODIC INSPECTION

1.01 LOCATION OF WORK

ECSD No. 2:

Sweetland Pumping Station:	Old Lakeshore Rd between Sweetland and Delamater Rd. Evans, N.Y.
18 Mile Pumping Station:	Old Lakeshore Rd south of 18 Mile Creek. Evans, N.Y.
Kellerman Pumping Station:	Old Lakeshore Rd south of Schoellkopf Rd. Hamburg, N.Y.
Pinehurst Pumping Station:	Old Lakeshore Rd at Crescent Terrace. Hamburg, N.Y.
Schriner Rd Pumping Station:	Schreiner Rd north of Beverly Ave Eden, N.Y.

ECSD No. 4:

Iroquois Pumping Station:	Iroquois Avenue @ Ronald Drive Lancaster, N.Y.
Haskell Drive Pumping Station:	East of 15 Haskell Drive Lancaster, N.Y.
Pleasantview Pumping Station:	579 Pleasantview Drive Lancaster, N.Y.

ECSD No. 6:

Commerce Dr Pumping Station:	East End of Commerce Dr. Lackawanna, N.Y.
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1.02 QUALIFICATIONS

- A. All field work must be performed by a certified National Association of Corrosion Engineers (NACE) Cathodic Protection Technician.
- B. All field work must be reviewed by a certified NACE Corrosion Specialist.
- C. The reports submitted for each pumping station must be reviewed and signed by a NACE Corrosion Specialist.
- D. The contractor shall be experienced and familiar with the procedures for performing inspection and testing of cathodic protection systems for corrosion protection at sewerage pumping stations.

1.03 SCOPE OF WORK

- A. The pumping stations listed on page 1 employ a cathodic protection system to prevent external corrosion attack. The layout of the cathodic protection systems at each pumping station are shown on the attached drawings where available. The cathodic protection systems at the pumping stations are to be inspected as described below.
- B. Furnish all labor, materials, tools, equipment, supervision and incidentals to perform the following work scope:
 - Conduct structure to earth potential measurements at all accessible locations at each pumping station. The data shall be used to determine if the cathodic protection systems are still providing effective corrosion protection to the subject structures.
 - At each pump station inspect and record the output on the cathodic protection transformer rectifier unit. Adjust the output as necessary to achieve the acceptance criteria of the National Association of Corrosion Engineers (NACE) Standard SP0285-2011.
 - At each pump station perform electrical isolation testing at accessible locations.
 - If any cathodic protection systems are determined to be deficient, recommend the most effective and economical means of repairing the cathodic protection system.
 - Submit three complete written reports, one for the pumping stations in district 2, one for the pumping stations in district 4, and one for the pumping station in district 6. The written reports shall include as a minimum a summary of the work performed, a description of the test procedures used, a presentation of the results and analysis of all test results, and the conclusions and recommendations for any required corrective actions to enable the continued operation of the cathodic protection systems. For recommended corrective actions include the associated cost estimates. Include AutoCAD layout drawings for the recommended corrective actions.
 - Each written report shall include a data sheet for each pump station with type of rectifier unit and anode system noted. Also include the post test rectifier settings.
 - Include with the report sample blank data sheets for Erie County operations personnel to use in recording the rectifier settings and output levels at the pump stations.

1.04 SUBMITTALS

- A. Submit with bid a copy of the NACE Corrosion Specialist's current NACE certification.
- B. Submit a certificate of insurance within two weeks of notice of award.
- C. The contractor must submit within two weeks of completion of work the following items:
 - 1. A written report for the work performed at the district 2 pumping stations.
 - 2. A written report for the work performed at the district 4 pumping stations.
 - 3. A written report for the work performed at the district 6 pumping station.

PART 2 – CATHODIC REPAIRS

2.01 LOCATION OF WORK

ECSD No. 6:

Commerce Dr Pumping Station: East End of Commerce Dr.
Lackawanna, N.Y.

2.02 QUALIFICATIONS

- A. All field work must be performed by a certified National Association of Corrosion Engineers (NACE) Cathodic Protection Technician.
- B. All field work must be reviewed by a certified NACE Corrosion Specialist.
- C. The contractor shall be experienced and familiar with the procedures for performing inspection and testing of cathodic protection systems for corrosion protection at sewerage pumping stations.

2.03 SCOPE OF WORK

- C. The Commerce Drive pumping station employs a cathodic protection system to prevent external corrosion attack. The rectifier header cables for the anode ground bed were cut during previous construction.
- D. Furnish all labor, materials, tools, equipment, supervision and incidentals to perform the following work scope:
 - Repair/replace header cables for the anode ground bed, up to 80' total prior to inspecting the cathodic protection system.
 - The contractor must comply with all laws and regulations pertaining to the proposed work.
 - The contractor shall be responsible for verifying all existing utilities in the project area.
 - This is an operational facility and all work performed shall be coordinated with the owner. Any work outside of 8am to 4pm Monday through Friday shall be preapproved by the owner.
 - Restoration shall be in-kind for any areas, facilities, or equipment damaged or disturbed as a result of this project.

PART 3 – STRAY CURRENT TESTING

3.01 LOCATION OF WORK

ECSD No. 2:

18 Mile Pumping Station: Old Lakeshore Rd south of 18 Mile Creek.
Evans, N.Y.

3.02 QUALIFICATIONS

- D. All field work must be performed by a certified National Association of Corrosion Engineers (NACE) Cathodic Protection Technician.
- E. All field work must be reviewed by a certified NACE Corrosion Specialist.
- F. The contractor shall be experienced and familiar with the procedures for performing inspection and testing of cathodic protection systems for corrosion protection at sewerage pumping stations.

3.03 SCOPE OF WORK

- E. The 18 Mile pumping station forcemain is experiencing localized corrosion in several spots.
- F. Furnish all labor, materials, tools, equipment, supervision and incidentals to perform the following work scope:
 - Perform stray current interference testing at a minimum of three locations identified by the owner along the forcemain.
 - The contractor shall be responsible for any necessary excavation work.
 - The contractor shall be responsible for any necessary traffic control.
 - The contractor must comply with all laws and regulations pertaining to the proposed work.
 - The contractor shall be responsible for verifying all existing utilities in the project area.
 - This is an operational facility and all work performed shall be coordinated with the owner. Any work outside of 8am to 4pm Monday through Friday shall be preapproved by the owner.
 - Restoration shall be in-kind for any areas, facilities, or equipment damaged or disturbed as a result of this project.

