

FOR INFORMATIONAL PURPOSES ONLY-DON'T USE FOR BIDDING

Department of Public Works Nassau County, N.Y.

Bid Sheet for Contract: H61587-RMP

Nassau County DPW

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Item No	Engineers Estimate	Item Description			
203.02	175.00 CY	Unclassified Excavation and Disposal	For:	Contingent	
203.06	35.00 CY	Select Fill	For:	Contingent	
207.21	10.00 SY	Geotextile Separation	For:	Contingent	
209.1101 0011	120.00 EACH	Temporary Catch Basin Inserts for Drainage Structures - Trash, Sediment and Debris Removal	For:		
304.1011 9917	10.00 CY	Subbase Course, Type 1011-2	For:	Contingent	
402.0981 04	15.00 TON	9.5 F1 Top Course HMA, 80 Series Compaction	For:	Contingent	
402.3789 04	110.00 TON	37.5 F9 Base Course HMA, 80 Series Compaction	For:	Contingent	
407.0102	25.00 GAL	Diluted Tack Coat	For:	Contingent	
520.0500 0010	20.00 LF	Sawcutting PCC and Composite Pavement	For:	Contingent	
520.0900 0010	1,400.00 LF	Saw Cutting Asphalt Concrete	For:	Contingent	
608.0105 0010	50.00 CY	Concrete Sidewalks - Unreinforced (Grading Included)	For:	Contingent	
608.0105 0109	56.00 EA	Type 1 Curb Ramp	For:		
608.0105 0209	17.00 EA	Type 2 Curb Ramp	For:		
608.0105 0309	34.00 EA	Type 3 Curb Ramp	For:		

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Item No	Engineers Estimate	Item Description			
608.0105 0409	2.00 EA	Type 4 Curb Ramp	For:		
608.0105 0509	44.00 EA	Type 5 Curb Ramp	For:		
608.0105 0709	1.00 EA	Type 7 Curb Ramp	For:		
608.0105 0809	1.00 EA	Type 8 Curb Ramp	For:		
608.0105 0909	8.00 EA	Type 9 Curb Ramp	For:		
608.0105 1009	27.00 EA	Type 10 Curb Ramp	For:		
608.0105 1109	4.00 EA	Type 11 Curb Ramp	For:		
608.0105 1309	1.00 EA	Type 13 Curb Ramp	For:		
608.0201 02	8.00 TON	Hot Mix Asphalt (HMA) Sidewalks, Driveways and Bicycle Paths and Vegetation Control Strips	For:	Contingent	
608.03	10.00 SY	Brick Paved Sidewalks and Driveways (Sand Setting Bed)	For:	Contingent	
608.20	3.00 SY	Surface Applied Detectable Warning Units	For:		
609.04	750.00 LF	Cast-In-Place Concrete Curb (As Detailed)	For:	Contingent	
609.05	150.00 LF	Cast-in-Place Concrete Curb & Gutter (As Detailed)	For:	Contingent	
610.1402	70.00 CY	Topsoil Roadside	For:	Contingent	
610.1601	350.00 SY	Turf Establishment - Roadside	For:	Contingent	

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Item No	Engineers Estimate	Item Description			
619.01	1.00 LS	Basic Work Zone Traffic Control	For:		
624.3100 0003	20.00 SY	Concrete Valley Gutter	For:	Contingent	
625.01	1.00 LS	Survey Operations	For:		
635.0103	795.00 LF	Cleaning and Preperation of Pavement Surfaces - Lines	For:	Contingent	
645.81	4.00 EACH	Type A Sign Post	For:		
647.31	4.00 EACH	Relocate Sign Panel, Sign Panel Assembly Size I (Under 30 Square Feet)	For:		
647.61	4.00 EACH	Remove and Dispose Ground Mounted Type A Sign Support(s), FDNS and Any Attached Signs - Size I (Under 30 Square Feet)	For:		
680.5100 0010	7.00 EACH	Alter Elevation of Pull Boxes	For:		
685.0720 0510	795.00 LF	White Epoxy Reflectorized Pavement Stripes (Special Markings) - 20 mils (Wet Night Visibility Spheres)	For:	Contingent	
699.0400 01	1.00 LS	Mobilization	For:		

**Installation of ADA Compliant Pedestrian Ramps at Various
County Locations (PR 1, 2, & 3) Nassau County, New York**

CONTRACT NO. H61587-RMP

GENERAL NOTES

All work included in this contract shall be in accordance with the following Nassau County Standard Specifications and Drawings, if they apply, or modified and amended in the Contract Specifications and Drawings.

- a) County of Nassau, Department of Public Works, 2009 Standard Specifications for Civil Engineering and Site Development Construction, or latest edition.
 - b) County of Nassau, Department of Public Works, Traffic Engineering, Traffic Signal Specifications and Standard Drawings, November 1998 and Addenda, or latest edition.
 - c) County of Nassau, Department of Public Works, Latest Standard Specifications and Details for the Construction of Sanitary Sewers 2003 or latest edition.
 - d) New York State Department of Transportation Standard Specifications 2008 and Addenda or latest edition.
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- 1. Scope of Work – The scope of work involves the installation of new pedestrian curb ramps on various county roads from Priority Resurfacing 1, 2, & 3 to bring them into compliance with ADA requirements. All project work is intended to occur within the Nassau County Right of Way.
 - 2. Note Deleted
 - 3. Note Deleted
 - 4. **NOTE: If ROW at any intersection is not shown in the Construction Plans to mill and repave, paving limits will be the flow line or determined by the Engineer in Charge. Also, the Engineer in charge will determine if a topographic survey must be performed to establish a proper flowline.**

5. **NOTE: Compliance with Law.**

Prohibition of Gifts. In accordance with County Executive Order 2-2018, the Contractor shall not offer, give, or agree to give anything of value to any County employee, agent, consultant, construction manager, or other person or firm representing the County (a “County Representative”), including members of a County Representative’s immediate family, in connection with the performance by such County Representative of duties involving transactions with the Contractor on behalf of the County, whether such duties are related to this Agreement or any other County contract or matter. As used herein, “anything of value” shall include, but not be limited to, meals, holiday gifts, holiday baskets, gift cards, tickets to golf outings, tickets to sporting events, currency of any kind, or any other gifts, gratuities, favorable opportunities or preferences. For purposes of this subsection, an immediate family member shall include a spouse, child, parent, or sibling. The Contractor shall include the provisions of this subsection in each subcontract entered into under this Agreement.

Disclosure of Conflicts of Interest. In accordance with County Executive Order 2-2018, the Contractor has disclosed as part of its response to the County’s Business History Form, or other disclosure form(s), any and all instances where the Contractor employs any spouse, child, or parent of a County employee of the agency or department that contracted or procured the goods and/or services described under this Agreement. The Contractor shall have a continuing obligation, as circumstances arise, to update this disclosure throughout the term of this Agreement.

6. **Work Hours**

Special Condition: Unless otherwise specified in other sections of this Contract, the Contractor may not close an active travel lane during peak travel times. Any requests to close the lanes between 6:30 AM and 9:00 AM and/or between 4:00 PM and 6:30 PM must have written approval 72 working hours in advance. If approval is obtained and excessive congestion results, the approval will be withdrawn by verbal notice from a County Representative and no claim for additional compensation will be considered valid.

If the contractor does not adhere to the specified time limit on each roadway, a \$ 5,000.00 per day penalty for each infraction shall be deducted from Item 619.01 Work Zone Traffic Control. Nassau County DPW shall utilize the information contained on/in the Inspector Daily Work Reports to determine when an infraction has occurred.

Work is not permitted on all Nassau County holidays unless prior County Approval is obtained. This includes, but is not limited to Memorial Day, Independence Day, Labor Day, Columbus Day, Election Day, Veterans Day, from 12:00 on the Wednesday before Thanksgiving Day through the following Sunday, Christmas Eve, Christmas Day, New Year's Eve, New Year's Day, and various Jewish Holidays including, but not limited to Rosh Hashanah, Sukkot, Shemini Atzeret, Simchat Torah, Yom Kippur, Chanukah.

During nighttime operations, the Contractor shall supply portable lights on his equipment and to light up the work area. There will be no additional payment for the increase in cost to supply lights and/or nighttime wage differential.

The Contractor, at his option and at no additional cost may install the pavement markings during night-time hours with prior approval by the Engineer. County pavement marking inspection staff will be provided 3 working days to inspect and approve the pavement marking layouts before the permanent installation occurs.

7. The contractor will be required to adjust traffic pullboxes and/or municipality-owned electric pull boxes under Item 680.51000010 "Alter Elevation of Pull Boxes".

8. Any existing traffic signal post, pole, mast arm shaft, or strain pole affected by the installation of handicap ramps or changes in grade must be height adjusted to bring the base plate to match new grades, including removing the pole/post and adjusting the anchor nuts, and reinstallation of the pole and equipment. Existing raincap is to be removed and new one installed as per the Nassau County traffic signal foundation item specifications.

All signal head heights must be checked before any pole height is adjusted so that they continue to meet signal head height requirements. All traffic signal pushbuttons need to be adjusted in height to be ADA compliant, if affected by the ramp installation which includes changes in grade from existing and meet the Nassau County traffic signal specifications.

If any existing Nassau County owned streetlight poles are affected by the installation of handicap ramps or changes in grade the contractor must notify Nassau County Traffic Signal Management prior to the start of any work.

The Contractor must notify Sheila M. Dukacz of the Nassau County Traffic Signal Management Section before any work begin by calling 516-572-0465, ext. 20958 and by email sdukacz@nassaucountyny.gov A Nassau County inspector must be present during this work.

10. The Contractor will be responsible, at all times, for the safety of the general public, and for the protection of persons who may for any reason enter within the limits of his work.
11. The Contractor shall employ flagmen when deemed necessary by the Engineer and shall erect proper warning signs and necessary barricades to protect the general public and to warn them of changes caused by the progression of his contract. The contractor is responsible for work zone safety as per OSHA requirements.
12. Prior to the start of work, the Contractor shall notify the local police, fire department, school district, utilities and all municipalities within the proximity of the work order limits or if they may be impacted by the work in anyway, as to the conditions prevailing on the construction site.
13. The Contractor must, at all times, provide a safe and uninterrupted two-way traffic over the roads under construction, unless a detour plan is provided and approved by the County.
14. Lighted Barricades, Flashing Warning Lights and Signs:
 - a) Must be serviced a minimum of twice each week.
 - b) Must be checked and maintained by the Contractor each day, including weekends and holidays.
 - c) Must be secured or weighted in such a manner as to prevent them from blowing over under windy conditions.
 - d) Must be in accordance with the latest Manual of Uniform Traffic Control Devices.
15. No direct payment shall be made for the above items of work, but the cost shall be included in the price bid for Item 619.01.
16. Conformance to the following notes with respect to the American with Disabilities Act Curb Ramps is required:
 - All curb ramps installed shall be in compliance with the ADA, PROWAG, and NCDPW standards.
 - Contractor shall verify the placement of all new ramp configurations prior to installation. Contractor must give 48 hours (2 business days) notification for NCDPW approval.
 - A NCDPW inspector must be present during the installation of any curb ramp.
 - It is recommended that a smart level tool (or equivalent) is used to check the slopes on all form work prior to the placement of concrete.

- NCDPW Civil Engineering Design Unit must be notified in writing of all work done to curb ramps to update the transition plan inventory.

NOTE: The contractor will be required to maintain safe pathways for pedestrians during the entire time the contract is in effect, including all periods of work shutdown. This may involve mowing of grass, removal of snow and ice, and any other interruptions interfering with their safe travel through the construction zone. Failure of the contractor to insure safe pedestrian passage as determined by County staff, or from pedestrian complaints in the work zone will result in a fine of \$ 500.00 a day. This fine will be deducted from any funds owed the contractor.

17. The Contractor must submit to the Engineer a schedule of work order locations at which he will be working and a tentative schedule of dates that he intends to be at said locations. All work will be done during a normal eight (8) hour day, Monday through Friday. If the Contractor chooses to work beyond the normal work hours, the Contractor will be responsible for reimbursing the County for the additional cost, including benefits costs of any County employees and/or County representatives working for the County that work these overtime hours.

Note: If work is done under a County declared emergency condition, this provision will not apply.

18. The Contractor will not be allowed to commence more than three (3) work orders at any one time. If the County issues a written declaration of an emergency a fourth work order may be started prior to one of the three in progress work orders being 100% complete. However, at no time will more than four Work Orders be in progress.
19. Payment for the work performed under each Work Order, shall be made upon the completion and acceptance by the County. However, final payment will not be made until all punch list work is completed to the satisfaction of the Engineer.
20. All weather and temperature requirements specified by the Manufacturers for materials used must be adhered to.
21. Where there are fire hydrants situated along a section of roadway where markers are to be installed, blue double faced markers shall be installed in line with the hydrant (as required).

22. **Pavement Restoration**

a) **Stone Base Pavement**

(1) **Longitudinal Openings**

- (a) The pavement over the trench shall be cut back a minimum of 6" on both sides of the trench to insure an even edge.
- (b) If the remaining longitudinal strip is less than 3 feet on one side, the total width of the cutback, trench and side strip must be replaced.

(2) **Transverse Openings**

- (a) The Pavement over the trench shall be cut back a minimum of 6 inches on both sides of the trench to insure an even edge.
- (b) Asphalt plant mix, dense base or concrete, shall be used for the replacement of the stone base pavement removed.

b) **Concrete Base and Finished Concrete Pavement**

- (1) Longitudinal Openings
 - (a) The entire panel width must be removed and replaced. Ends of panel to be saw cut if not at a transverse joint.
 - (b) In no case shall any portion of the existing panel that is less than 6 feet from a transverse joint be left in place.
 - (c) When concrete base panels with macadam overlays are to be removed, the Black Top shall be cut back a minimum of 6 inches onto the adjacent panels to provide a smooth vertical edge on the Black Top.
- (2) Transverse Openings
 - (a) Transverse openings shall be saw cut 90 degrees to the longitudinal joints.
 - (b) Pavement replacement to be a minimum of 2 feet on both sides of the trench, and a total minimum of 6 feet wide.
 - (c) In no case shall any portion of the existing panel that is less than 6 feet in length from a transverse joint be left in place.
 - (d) Where openings are skewed across the pavement the concrete replacement must be carried straight across each panel and not staggered. No portion of the existing panel that is less than 6 feet from a transverse joint should be left in place.
23. The contractor shall ensure that the “Longitudinal Joints” in the top course correspond with the edges of the proposed traffic lanes, or are located under the pavement markings. Longitudinal joints in the travel lanes wheel path shall be avoided. The crown of the roadway will *not be relocated for any reason*. Joint arrangements will require approval by the Engineer. The contractor must submit a detailed mat layout three (3) working days prior to any paving operations.
24. Note Deleted
25. Truing and Leveling will only be used when shown on the plans or as directed by the Engineer.
26. All work performed under this contract shall be in compliance with **Appendix EE**, “Equal Employment Opportunities for Minorities and Women”. As part of the “Detailed MBE/WBE Utilization Plan” the contractor shall provide documentation that a good faith effort was made to meet the intended goals. Also, all work performed under this contract shall include an SDVOB goal of 6% or Good Faith Effort.
27. **Procedure to Ensure Worker Safety**
 Work Zone safety was addressed in the contract documents. In addition, the County and contractor will discuss Work Zone safety issues at the pre-construction meeting. The contractor shall provide a safety plan (including subcontractors). The County Project Manager/Consultant R.E will ensure that the contractor has on site at all times at least one person skilled in safety and health procedures familiar with State and Federal safety and health regulations, whose responsibility it will be to monitor methods and procedures. NCDPW will review and approve prime contractor’s Health & Safety plan as per NYSDOT Specification 107-05.
 It is the Contractor’s responsibility to only have on site for the particular contract those workers who successfully completed the OSHA 10-hour construction safety course, and to have each of the worker’s certificates of completion with the project records, available for review by NCDPW. The Health & Safety Plan must be approved by NCDPW prior to the start of contract work.
 The Prime contractor will keep NCDPW informed as to their safety meeting schedule. Include with the schedule (whether it is monthly or weekly etc.) any meeting minutes, as well as sign-in sheets

as part of the project file/records.

28. Maintenance of Traffic

- a) Maintenance and protection of traffic will be paid as described under Item 619.01. No work shall commence until all appropriate traffic devices have been placed and functioning.
- b) If in the judgment of the Engineer, traffic is not properly and adequately maintained, no payment will be made to the contractor for Item 619.01, Maintenance and protection of traffic. The price bid shall include the cost of furnishing all labor, materials, tools and equipment necessary to satisfactorily complete the required to safely maintain traffic.

29. Utilities

- a) The Contractor is directed to notify all utilities well in advance of beginning work, to allow them to mark-out their facilities.
- b) The Contractor is directed to notify all privately-owned utilities well in advance of beginning work, to allow them time to adjust their manholes and other castings.
- c) The Contractor will see to it that utility valves and manholes are readily accessible at all times. The Contractor will not store materials over them and should it become necessary to cover the valves and manholes with soil, will devise a method for finding them quickly and assist the Utility Company to uncover them. Further, all utilities will be uncovered during non-working hours.
- d) Prior to the award of contract, the Contractor will be required to submit a list, certified by National Grid, of his key personnel who have taken the National Grid Safety Course along with a statement that sufficiently trained personnel will be available on the job site at all times.
- e) Mechanical excavation will not be permitted within two feet (2') on either side of any utility or house service so marked by the utility company. Hand digging will be required to expose the utility pipe. All provisions of 16 NYCRR Part 753 shall apply.
- f) Prior to backfilling, a National Grid representative will inspect all gas facilities and any damaged pipe will be repaired by the utility company. The Contractor's attention is called to existing PSE&G overhead lines. The Contractor is warned to keep all equipment and personnel a minimum of ten feet (10') from any conductor. The Contractor shall fully cooperate with PSE&G and comply with its requirements for safe operations.
- g) The Contractor's attention is called to the fact that there are utilities, both publicly and privately owned, that are within the contract area. The owners of privately-owned utilities may be relocating parts of their existing plants to conform to the new lines and grades of this project. The Contractor shall cooperate with the various agencies carrying out the work, which must be coordinated with the work of this contract.
- h) Existing structures, utilities and facilities, either shown or not shown on the plans, above or below the ground, may not have been located accurately. The Contractor shall determine the locations and elevations of pertinent structures, utilities and facilities, before new installations are started so that there will be no interference with the progression of the work. Any conflict between existing structures, utilities and facilities and the new items of work shall be ascertained by the Contractor prior to commencing any work under the respective items and called to the attention of the Engineer. It is the responsibility of the contractor to protect and maintain utilities or utility structures while working "in proximity". No additional payment will be made for this purpose.
- i) Grades and locations of new installations may be changed by the Engineer, if possible, to prevent conflict with existing installations. Therefore, the Contractor shall locate all existing installations accurately, both as to line and grade before new items of work are started.

- j) If the above procedure is not followed by the Contractor and new work has to be removed and replaced, or there is a delay, all the cost will be borne by the Contractor and the County will only pay for the amount of the items in place complete at the completion of the work.
 - k) The Contractor shall exercise extreme care in the performance of any operation, in the vicinity of the existing or relocated cable pipelines. No such operations shall take place without proper personnel of PSE&G on hand. All excavation in the immediate vicinity of these lines shall be done by hand, with such application as to ensure that the pipe shall not be punctured or the coating disrupted. In the event that any length of cable pipeline is exposed, it shall be supported and protected to the satisfaction of PSE&G inspection personnel. No blind sheeting shall be driven in the proximity of the existing electric cable pipes before first exposing these cable pipes by hand.
 - l) The Contractor should inspect the utility companies' plans to ascertain the location of the underground work and locations of crossings of sewer and drainage work. The Contractor shall coordinate his work with the work being done by the utility companies. It is anticipated that job meetings will be held at various times to aid in coordination of the work.
30. Protection of Facilities - The Contractor shall protect all new work done under this contract from possible injury for the duration of the Contract. He shall be responsible for the repair or replacement, to the satisfaction of the Engineer, of any material, structure, or property on or adjacent to the site and damaged by him or his employees through the construction and demolition operations up to the time of acceptance by the County.
31. Drainage Installations - The Contractor shall plan his work and progress, so that at all times either the new or the existing drainage facilities will function to carry off liquids so that no damage or inconvenience will result.
32. **Clean-Up**
- a) Prior to final acceptance of the work under this Contract, the Contractor shall clean the pipe, manholes and catch basins where construction was undertaken, of accumulated dirt, sand or other materials which have washed into them. No direct payment shall be made for the aforementioned work; but shall be included in the prices bid for the various items of the Contract.
 - b) The Contractor will be required to restore to original condition all areas, outside the work limits, that are disturbed by him during the life of this contract.
 - c) No separate payment will be made for any of this clean-up and restoration work, but the cost thereof shall be included in the unit prices bid for various items.
 - d) No separate payment will be made for any of this clean-up and restoration work, but the cost thereof shall be included in the unit prices bid for the various items.
33. **Subletting**
- The attention of all bidders is directed to the provisions of Article 20, Sublet or Assign, relative to the percentage of work that may be assigned or sublet, which provisions will be enforced by the County in the manner it deems advisable.
34. **Job Site Safety**
- Precaution shall be exercised by the Contractor at all times for the protection of all personnel. The safety provisions of applicable laws shall be observed, but job site safety is the sole responsibility of the Contractor and his subcontractors and cannot be assumed by the County or its agents.

35. **Rubbish and Debris**

The Contractor shall legally dispose of all unsuitable material, rubbish and debris at some separate location, not in the vicinity of the site.

36. **Concrete Breaking**

The Contractor is cautioned that the use of a ball operated from a crane or other equipment will not be permitted under any circumstances for the breaking up of any concrete or other demolition work. Any machine or method used must meet the approval of the Engineer.

37. **Sales Tax Exemptions**

Nassau County is exempt from the payment of New York State Sales Tax and Compensating Use Taxes under Section 1116 of Article 28 of the Tax Law of the State of New York and is exempt from the payment of Nassau County Sales and Uses taxes under Section 7, Ordinance 404-C-1968, enacted pursuant to Section 1210 of Article 29 of the Tax Law of the State of New York. However, it is not to be construed by bidders as relieving them from any obligation to pay sales tax on applicable items pursuant to the terms of the present sales tax laws.

38. **Cold Patch**

Payment for cold patch material used in this contract is included in the cost of the Item 619.01, no additional payment shall be paid for this material.

39. **Requirements of Other Municipal Departments**

The Contractor shall give all necessary notices, obtain all permits and pay all fees in connection with the work under this contract. He shall comply with all laws, ordinances, rules and regulations of Nassau County and Municipal Departments having jurisdiction over work of this character. These shall take precedence over any requirements of these Specifications where and if a conflict occurs. This, however shall not be interpreted as permitting the use of materials and equipment inferior to those specified.

40. The Contractor shall notify the Nassau County Dept. of Public Works at (516) 571-9600 prior to the removal and relocation of bus shelters and/or benches. Shelters shall be taken out of service for the shortest amount of time possible. The Contractor is directed to relocate bus shelters and/or benches in kind, the cost of this removal and reinstallation shall be included in the cost of Item 1. The seven-inch (7") thick concrete slab for shelters, is to be paid for under Items 28 and 30. The planning Commission reserves the right to have its vendor relocate their advertising bus shelters and/or benches.

41. **Private Facilities in Public Rights-of-Way (ROW)**

42. The Contractor shall be aware that sprinkler heads, private lamp and sign posts, signs, electric signs, electric lines, water service, oil inlets, oil lines, horticultural planting, landscaping, etc. were owned privately, but exist in the public ROW. The Contractor may be required to remove these appurtenances as ordered by the Engineer.

43. Payment for this work will be included in the price bid for various items in the Contract.

42. **Special OSHA Notes**

- a) Safety Provisions in the Specifications are primarily to protect County Property and the public against unsafe acts of the Contractor. The Occupational Safety and Health Act of 1970 (OSHA) requires that "Each Employer" (1) shall furnish to each of his employee's employment and a place of employment which are free from recognized hazards that are causing or likely to cause

death or serious physical harm to his employees; (2) shall comply with the occupational safety and health standards promulgated under this Act.”

The regulations in the act may be more stringent than are required by the Plans and/or Specifications. The Contractor however must conform to the OSHA Regulations and such conformance shall not be reason to demand additional payment or claim extra work.

- b) Sheeting shall conform strictly to the Requirements of the OSHA Regulations for Construction Subpart P, Excavation, Trenching and Shoring:

1926.650	General protection requirements;
1926.651	Specific excavation requirements;
1926.652	Specific trenching requirements;
1926.653	Definitions applicable to this subpart.

43. The Contractor shall notify the Nassau County Police Department, local Fire Department and Metropolitan Suburban Bus Authority in writing as to the conditions prevailing on the construction site and detours in use. Duplicate copies of such notices shall be filed with the Engineer.
44. The Contractor shall obtain the necessary permit from the water district to allow rollers to be filled with water from fire hydrants. Intakes shall be fitted with either an “Airgap” or “Double Check Valve Assembly” to prevent water from the roller from entering the public water system.
45. The Contractor shall be required to hand out notices to the local homeowners and businesses affected by the construction operations, twenty-four (24) hours prior to starting work. A sample letter is attached at the end of these General notes.

The Contractor shall notify the local police department, fire department/district, school district, utilities and all municipalities within the proximity of the work limits or if they may be impacted by the work in any way, prior to the start of the work, as to the conditions prevailing on the construction site.

46. All areas of pavement excavated shall be completely filled in at the end of the work day. All lanes of traffic shall be opened at the end of each work day.
47. The Contractor shall replace wire sensors where encountered under various traffic items. The Contractor shall be required to place all the traffic signals to "re-call" position immediately, if the operation is going to affect the traffic signals.
48. **Schedule:** The Contractor shall provide a detailed written schedule of operations for when work will be started and completed for each Work Order within the Contract one week after the Notice to Proceed is issued. Typical information to be provided includes, but is not limited to:

- a) Curb Ramps
- b) Miscellaneous items
- c) Traffic pavement markings;
- d) Punch list

No claims will be processed until the County has this updated information on a bi-weekly basis until the project has been completed.

49. Test Cylinders - The Contractor will provide a place for concrete test cylinders close enough to the work so that the cylinders share the same curing conditions. The Contractor will protect these cylinders for the three days they will be left on the job site.
50. **Construction in the City of New York Rights of Way**
 - a) Permits - Shall be obtained by the Contractor from the City of New York for all work within City rights-of-way. He shall pay for all costs of obtaining such permits including costs of City inspection.
 - b) General - Acceptance of all work within City rights of way shall be subject to the inspection and approval of the Transportation Administration Administrator, Office of Construction Coordination, 40 Worth Street, New York, N.Y. 10013.
 - c) Payment - No separate or additional payment will be made for conforming to the various requirements of the City of New York Transportation Administration but the cost thereof will be deemed included in the appropriate Contract Items without regard to differences in materials, thickness and types of pavements and methods of construction, temporary construction or maintenance of traffic.
51. The contractor when submitting shop drawings for approval must specify the work order number and location that said shop drawings will be used.
52. Erosion and Sediment Control: The contractor shall assume responsibility for the temporary control of soil and water pollution that could potentially result from construction activities and shall be in accordance with Federal, State and Local regulations, as well as the Contract specifications and directions of the County representatives. In essence all necessary precautions shall be taken to prevent contamination of waters and surrounding areas by slit, sediments, fuels, solvents, lubricants, epoxy coating, wet concrete, concrete leachate, washings from concrete equipment or any other pollutant associated with drilling and constructions procedures. Specific reference is made to the New York State Department of Environmental Conservations' "Guidelines for Urban Erosion and Sediment Control", along with any subsequent updates. Associated costs for erosion and sediment control, inspection and maintenance of the same as mentioned above, including any permits required, shall be included in the unit prices for individual items.
53. Note Deleted
54. The contractor shall have a full time Supervisor, fluent in English on the project at all times.
55. No permanent asphalt top course will be allowed to be placed after December 1st (unless approved by the Commissioner and as long as other conditions are met per specification).
56. All layout of traffic pavement markings must be completed immediately after paving and prior to opening the newly paved surface to traffic. The cost of all layout of traffic pavement markings shall be included in the various items of the Contract.

57. The contractor must contact the Resident Engineer or Harold Lutz of the Nassau County Traffic Engineering by calling (516) 571-9453, within 48 to 72 hours prior to final pavement marking placement. On all roadways resurfaced under this contract, epoxy reflectorized pavement markings shall be placed within 3 business days of final paving. A \$1,000.00 per day penalty will be deducted from the various asphalt items after 3 business days until the epoxy is placed.
58. The contractor must notify the Resident Engineer and Jeff Lindgren of the Nassau County Traffic Management Section prior to any lane closures by calling (516) 571-6998, by email jlindgren@nassaucountyny.gov, or TrafficHelp@nassaucountyny.gov; two (2) of the three (3) forms of contact must be used to ensure contact has been made.
The contractor must submit any lane closure to Nassau County Traffic Management website: <https://apps.nassaucountyny.gov/trafficmanagement/closureform.php>
59. Any existing traffic signal post, pole, mast arm shaft, or strain pole affected by the installation of handicap ramps or change in grade must be height adjusted to bring the base plate to match new grades, including removing the pole/post and adjusting the anchor nuts, and reinstallation of the pole and equipment. Existing raincap is to be removed and new one installed as per Nassau County traffic signal foundation item specifications. All signal head heights must be checked before any pole height is adjusted so that they continue to meet signal head height requirements.
All traffic signal pushbuttons need to be adjusted in height to be ADA compliant, if affected by the ramp installation which includes changes in grade from existing and meet the Nassau County traffic signal specifications.
All traffic signals shall be placed on recall mode prior to any milling or asphalt paving.
The contractor must notify the Resident Engineer and Sheila M. Dukacz of the Nassau County Traffic Signal Management Section by calling (516) 572-0465, ext. 20958 or by email sdukacz@nassaucountyny.gov prior to any work involving alteration of traffic signal equipment or infrastructure including placing traffic signals within the work area on recall if required and return them to the existing operation once all work is completed. A Nassau County Traffic inspector must be present upon the completion of this work.
60. The contractor must notify the Resident Engineer or Nassau County Project Manager and coordinate with Nassau County Traffic Signal Management Section all required traffic loop installations.
61. The contractor is to notify all privately owned utilities at least 5 business days before starting work to permit the utility time to adjust their facilities.
62. The contractor must notify all water districts and/or municipality owned water companies of any water valves that cannot be opened so that they can be adjusted, prior to resurfacing the roadways. Any complaints that the County receives for manholes and/or water valves not raised will be referred to the contractor to rectify at no cost to the County of Nassau.
If any water valve and/or gas valve box tops are milled off, complete replacement of the valve box top section will be required at no cost to the County of Nassau.
63. Note Deleted

64. Survey Stakeout - Survey work shall be paid for under Survey Operation (Item 625.01) only when done with prior written approval of the project manager. When the work is completed in less than an 8 hour shift the payment will be prorated for the actual time required. Survey work done to determine the contractors' payment will not be paid for under this item.

65. **Sanitary Sewer Notes**

- a. The Contractor shall notify the Water/Wastewater Engineering a minimum of two (2) working days prior to work involving any sanitary sewer facilities. Notification is to be made by calling (516) 571-6841
- b. All work shall be in accordance with NCDPW Standard Specifications and Details for the Construction of Sanitary Sewers, latest edition 2003. All work must be performed in the presence of a Nassau County inspector.
- c. All sanitary sewer house connections and laterals shall be located prior to any excavation by Contractor.
- d. The Horizontal/Vertical separation of sewer and drainage pipe or water main/services shall meet or exceed the requirements outlined in the RECOMMENDED STANDARDS FOR SEWAGE WORKS (Ten States Standards), latest edition.
- e. Where sanitary or house connection sewers cross over a drainage trench area, the sewer shall be replaced with Ductile Iron extending a minimum of five feet (5') each side of crossing to undisturbed soil. The same replacement shall apply for sewers under a drainage trench area within twelve-inch (12") clearance, bottom of drain to top of sewer.
- f. All pipes, manholes and appurtenances shall have the County approval stamp thereon or written certification acceptable to the County, before the material can be installed.
- g. Where it is necessary to raise sanitary sewer manhole castings to grade for repaving, fixed frame castings must be raised either by adjusting the height of the brick masonry or using an approved insert (metal inserts are not permitted). Adjustable frame type manholes may be raised by adding up to a maximum of two, one-inch (1") adjustment rings to achieve final grade.
- h. All non-adjustable sewer manhole castings will be replaced with new adjustable manhole castings under Item 34-Miscellaneous Metals and installed under Item 16X. The cost of painting them with two coats of asphaltum paint shall be included in the various items of the contract. Proper adjustment of sanitary sewer manholes to finished grade will be required on all Nassau County owned facilities. The contractor shall notify Water/Wastewater Engineering of Nassau County, two (2) working days prior to work involving our sanitary sewer facilities. Notification is to be made by calling (516) 571-7502 or (516) 571-7505. No inserts are to be used. Manholes must be physically raised, except Adjustable Frame type (see below). Where sanitary sewer manholes are of the adjustable frame type, a maximum of two (2) one-inch

adjustment rings will be allowed to bring casting to finished grade.
No payment will be made for manholes that are not set to proper grade.

Prior to final acceptance of the project, the contractor has to make a final inspection with the County representative of all sanitary sewer manholes to make sure there is no debris inside the manholes that would cause a blockage. If any debris is found, it must be cleaned out immediately. Also, if a blockage is caused by the contractor's carelessness in raising the manhole, he will be responsible for any cost incurred for cleaning the blockage and any legal suits that are brought against the County of Nassau for damage caused by this blockage.

- i. The contractor shall comply with all OSHA requirements for entry into a confined space whenever it is necessary for a contractor's employee to enter a Nassau County sanitary sewer manhole. The minimum requirements the contractor must comply with are:
 - a. Contractor issued ENTRY PERMIT.
 - b. Confined space entry monitor to test for toxic, explosive and oxygen deficient atmosphere.
 - c. Confined space rescue and retrieval equipment.

The contractor will not be permitted to work in a Nassau County sanitary sewer manhole unless he complies with *all* applicable OSHA requirements.

66. At all times during the life of this contract, the Contractor shall maintain safe vehicular traffic and access to adjacent private properties located throughout the entire length of the contract.
67. Note Deleted
68. The Contractor will provide a place for concrete test cylinders in proximity to the work so that the cylinders share the same curing conditions as the newly placed concrete. The Contractor will protect these cylinders for the three days they will be left on the job site.
69. Nassau County Drainage Manholes
All Nassau County drainage manhole frames and castings raised under Item 16X, shall be replaced with new adjustable two part manhole frame and casting including new cover. No adjustment rings will be allowed in these castings. They must be raised to the proposed roadway grade. Payment for these new frames, covers, and castings shall be made under Item 34 - Miscellaneous Metals. No payment will be made for manholes that are not set to proper grade. If any debris is found by the contractor's carelessness in raising the drainage manholes it must be cleaned out immediately.
70. The contractor will be required to remove all existing plowable markers prior to the paving operation. Payment for the removal of existing plowable markers will be included in the cost of the various bid items. The voids left from the removal of the plowable markers will immediately be filled with Asphalt Cement, Type 1A. Plowable markers will be replaced as ordered by the Engineer.
Where there are fire hydrants situated along a section of roadway where markers are to be installed,

blue double faced markers shall be installed in line with the hydrant (as required).

71. The contractor will be required to remove the following traffic markings just prior to the paving operations: *crosswalks, arrows, and stop lines*. Payment for removing these traffic markings will be included in the cost under Item 608.0105NN09. Non paving areas (side streets) traffic pavement markings shall be removed under Item 635.0103.
72. When the final yield factor is not within the tolerances specified of the County worksheets for Item 36DRAR, plus the leveling used in Item 36DRAR, maximum payment of asphalt in those items shall be shown below:

Percent over Engineer's Estimate: Maximum Payment

5 to 10 Percent	95 percent of the total asphalt material delivered to the project
11 to 20 Percent	90 percent of the total asphalt material delivered to the project
21 to 25 Percent and Over	85 percent of the total asphalt material delivered to the project

73. GA-GC -Asphalt Quality Control at Asphalt Plants – if ten (10) Nassau County DPW Lab samples fail due to low AC content and/or 15 gradation samples fail, the approved job mix formula, one (1) percent for each infraction of asphalt concrete produced from that plant will be deducted from the total for Item 36DRAR - Rut Avoidance Asphalt Type 1A.
74. The Contractor is responsible to coordinate efforts with NC Permit Dept. and Utilities to resolve pending 239F applications within construction site. Any restoration performed must conform to NCDPW Standard Specifications. NCDPW Permits Department contact information: (516) 571-6840 / 6841.
75. The Contractor is required to coordinate his work with Public Agencies and Private Utility companies to avoid conflicts and to arrange for castings and appurtenances which are to be adjusted by others in advance of performing any final pavement overlay work. The contractor is required to obtain approval for limits of proposed pavement milling and overlay work, sidewalk ramp type and layout of proposed pavement markings from a County representative prior to performing any proposed work.
76. **Supplies**
 - a) As per Item 699.040001 - Mobilization: All the provisions of the Item 699.040001 shall apply with the following modifications: Contractor shall provide one (1) cell phone under this item, so that County's Engineer may maintain contact with inspection forces. It must be a smart phone (type to be approved by the Engineer) with a minimum 256 GB storage capacity along with a mobile charger and a hard-protective cover. No work may begin until the phone is provided, and service is activated. The smart phone service shall be maintained for the duration of the contract. The phone shall be replaced at no additional cost to the County if damaged or lost, otherwise cease the operation.
 - b) The contractor shall supply the following equipment at the start of the project, those items shall be shown below:

MINIMUM SPECIFICATION

Measuring Wheel:	Provide one (1) new measuring wheel (Wheel Master DigiRoller Plus 3 Model 6575 or approved equal) at the start of the project
Calculator:	Provide one (1) Construction Master - ProDesktop Model 44080 or approved equal
Mark Out Paint:	Provide four (4) cases of Seymour Stripe Inverted Tip Marker white paint or approved equal
Boots:	Provide four (4) pairs of Timberland Pro – Helix Soft Toe work boots or approved equal

At the completion of the Contract, all above referenced equipment, with exception to the cell phone, shall become the property of Nassau County. The cost of this equipment shall be included in the cost of Item 699.040001-Mobilization.

Addenda Notes and Modification to the Nassau County Specifications

NOTE: Where a standard Nassau County item has been modified for use under this agreement for payment purposes all the provisions of the standard item will apply unless indicated otherwise herein.

LIST OF SPECIAL SPECIFICATIONS

ITEM NO.	ITEM DESCRIPTION
209.11010011	TEMPORARY CATCH BASIN INSERTS FOR DRAINAGE STRUCTURES TRASH, SEDIMENT AND DEBRIS REMOVAL
304.10119917	SUBBASE COURSE, TYPE 1011-2
520.05000010	SAW CUTTING PCC AND COMPOSITE PAVEMENT
520.09000010	SAW CUTTING ASPHALT CONCRETE
608.0105NN09	CURB RAMP
608.01050010	CONCRETE SIDEWALKS - UNREINFORCED (GRADING INCLUDED)
624.31000003	CONCRETE VALLEY GUTTER
680.51000010	ALTER ELEVATION OF PULL BOXES
685.07200110	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES (SPECIAL MARKINGS) 20 MILS THICK (WET NIGHT VISIBILITY SPHERES)

DESCRIPTION:

The work shall consist of furnishing, installing, maintaining, removing and disposing of catchbasin inserts for drainage structures at the locations indicated in and according to the contract document and as directed by the Engineer.

MATERIALS:

The following sections of the standard specification shall apply:

Geotextiles

737-01

With the following qualifications:

- the geotextile used shall meet the requirements of Table 737-01G.

The temporary catch basin insert shall be a commercially manufactured system that fits inside adrainage structure and traps sediment transported by runoff.

Flexstorm™
as manufactured by
Advanced Drainage Systems
4640 Trueman Boulevard
Hilliard, OH 43026
1.800.821.6710
www.ads-pipe.com

Inlet Pro™
as manufactured by
Hanes Geo Components
815 Buxton Street
Winston Salem, NC 27101
1.888.239.4539
www.hanesgeo.com

Dandy Sack®
as manufactured by
Dandy Products, Inc.
P.O. Box 1980
Westerville, OH 43086
1.800.591.2284
www.dandyproducts.com

Ultra-Drain Guard®, Reusable Model
as manufactured by
Ultra Tech International, Inc.
11542 Davis Creek Court
Jacksonville, FL 32256
1.800.764.9563
www.spillcontainment.com

or equal as approved by the Engineer.

To be approved for use, each temporary catch basin insert for drainage shall have the following features:

- total suspended solids (TSS) removal rate of at least eighty percent (80%) based on visual inspection,
- allow for stormwater event overflow bypass. No product shall be approved unless it includes an overflow mechanism.

- inserts must be capable of being re-used (after first maintenance activity) a minimum of one time,
- easy to clean and replace geotextile inserts,
- include handles and fasteners to keep the insert from falling into the inlet during maintenance and removal, and
- Not interfere with all traffic modes.

Submittals:

Submit product information to the Engineer thirty (30) days prior to the planned date of installation for review and approval of the system.

CONSTRUCTION DETAILS

The following section of the standard specifications shall apply:

Soil Erosion and Sediment Control

209-3.01

with the following exceptions:

- Torn or punctured silt fence fabric must be replaced
- Sediment deposition removed from the catch basin insert shall be disposed of in accordance with §107-10 E.

Installation: Install the temporary catch basin inserts according to manufacturer's instructions.

Inspection: Using the most restrictive inspection criteria listed below, the Contractor shall inspect catch basins:

- weekly,
- after a rainfall event of 0.5" or more per twenty-four (24) hour period,
- as per manufacturer's instructions, and/or
- as per the conditions of the Stormwater Pollution Prevention Plan (SWPPP) (if any exists).

Maintenance: Maintenance shall include the following:

- Remove all accumulated sediment and debris from the vicinity of the catch basin after each rainfall event of 0.5" or more per twenty-four (24) hour period and prior to removal of the insert for maintenance.
- Remove insert according to manufacturer's instructions.
- Empty the unit when the catch basin insert's containment area is more than one third (1/3) full or before the sediment/trash/debris reaches the overflow openings.
- Refer to the manufacturer's instructions for emptying and re-installing the catch basin insert. Removal of trash, sediment and debris from the insert shall be done in a manner that ensures no trash, sediment or debris will enter an unprotected catch basin.
- Disposal of the removed sediment shall occur at an upland location away from all stormwater conveyances.

- Trash shall be disposed of according to §107-10 E. of the standard specifications.
- If a catch basin insert's fabric or strap is torn, dispose of the sediment and debris contained within the unit according to this specification and replace the entire unit.
- When the servicing of a catch basin insert results in a non-functioning or poorly-functioning unit, the unit shall be replaced.
- Catch basin inserts shall be removed prior to winter shut down. Re-installation of the unit(s) shall occur prior to ground disturbance or first thaw in the following spring, whichever occurs first, and according to manufacturer's instructions.

Catch basin inserts shall be removed according to §209-3.01 and disposed of according to §107-10 E. after all soil disturbance areas have been fully stabilized with an established, permanent and approved vegetative cover at a uniform density of eighty percent (80%).

METHOD OF MEASUREMENT

The work will be measured as the number of each catch basin insert for drainage structures furnished, installed, maintained, removed and disposed of.

BASIS OF PAYMENT

The unit price bid for each catch basin insert for drainage structures furnished, installed, maintained, removed and disposed of shall include the cost of all labor, materials, and equipment necessary to satisfactorily complete the work.

Payment will be made under:

Item Number	Description	Unit
209.11010011	Temporary Catch Basin Inserts for Drainage Structures – Trash, Sediment and Debris Removal	EA
209.11020011	Temporary Catch Basin Inserts for Drainage Structures – Oil, Hydrocarbons, Trash, Sediment and Debris Removal	EA
209.11030011	Temporary Catch Basin Inserts for Drainage Structures – Oil and Hydrocarbon Absorbent Pouches	EA

ITEM 304.10119917 - SUBBASE COURSE, TYPE 1011-2

All of the requirements of Section 304 *Subbase Course* shall apply except as herein modified:

MATERIALS

Material shall conform to the requirements of §733-04 *Subbase Course* with the addition of the following requirement:

Natural Material. Natural material obtained from sources located in Richmond, Kings, Queens, Nassau and Suffolk Counties shall conform to the following gradation:

Sieve Size Designation	Percentage Passing by Weight
2 in.	100
1 in.	80-100
¾ in.	50-85
No. 10	30-70
No. 40	15-40
No. 200	6-12

Natural material obtained from sources other than those listed above shall conform to the gradation requirements of Table 733-04A *Subbase Gradation* in §733-04B. *Gradation*.

BASIS OF PAYMENT

Payment will be made under:

Item No.	Item	Pay Unit
304.10119917	Subbase Course, Type 1011-2	Cubic Yard

ITEM 520.05000010 - SAW CUTTING PORTLAND CEMENT CONCRETE AND COMPOSITE PAVEMENTS

DESCRIPTION. This work shall consist of saw cutting existing reinforced or unreinforced portland cement concrete, including portland cement concrete pavement and sidewalk, and composite pavement (asphalt concrete on reinforced or unreinforced portland cement concrete), at the locations indicated on the plans or where directed by the Engineer.

MATERIALS. All equipment proposed for this work shall be subject to approval by the Engineer prior to actual use. Rotary rock saws shall not be used for cuts under this item.

CONSTRUCTION DETAILS. Saw cutting shall be along a neat line as indicated on the plans or where directed by the Engineer. The cuts shall be neat and true with no shatter. Saw cuts shall be made to the depth (s) indicated on the plans and as stated below.

When removing composite pavement the Contractor shall saw cut the existing pavement for the full depth of the concrete pavement. The total saw cut depth will be more, depending on the thickness of the asphalt. At the Contractor's option, the asphalt concrete may first be saw cut and removed before making a second cut through the portland cement concrete.

Any damage to material not indicated for removal, caused by the Contractor's operations, shall be repaired by the Contractor. All repair shall be done in a manner satisfactory to the Engineer.

METHOD OF MEASUREMENT. This work will be measured by the number of linear feet of saw cutting done. No allowance will be made for saw cuts of different depths.

Saw cutting which is done for the Contractor's convenience will not be measured for payment under this item.

BASIS OF PAYMENT. The unit price bid per linear foot of saw cutting shall include the cost of all labor, materials, and equipment necessary to complete the work.

Only one payment will be made for saw cutting when removing composite pavement regardless of the method chosen. The cost of saw cutting the asphalt concrete in the composite pavement is included in this item. No payment will be made for this saw cutting under the item for saw cutting asphalt concrete.

Any repairs made necessary by the Contractor's operations shall be done to the satisfaction of the Engineer at no additional cost to the State

ITEM 520.09000010 - SAW CUTTING ASPHALT CONCRETE

DESCRIPTION. This work shall consist of saw cutting existing asphalt concrete pavement or sidewalk at the locations indicated on the plans or where directed by the Engineer.

MATERIALS. All equipment proposed for this work shall be approved by the Engineer prior to actual use.

CONSTRUCTION DETAILS. Saw cutting shall be along a neat line as indicated on the plans or where directed by the Engineer. Saw cuts shall be made to the depth(s) indicated on the plans.

Any damage to material not indicated for removal, caused by the Contractor's operations shall be repaired by the Contractor. All repair shall be done in a manner satisfactory to the Engineer.

METHOD OF MEASUREMENT. This work will be measured by the number of linear feet of saw cutting done. No allowances will be made for saw cuts of different depths.

No saw cutting will be measured for payment under this item which the Contractor may choose to do for his own convenience.

BASIS OF PAYMENT. The unit price bid per linear foot of saw cutting shall include the cost of all labor, materials, and equipment necessary to complete the work.

Any repairs made necessary by the Contractor's operations shall be done to the satisfaction of the Engineer at no additional cost to the State.

DESCRIPTION

The work shall consist of constructing curb ramps, turning spaces, and associated curbing in accordance with the applicable Standard Sheets and Specifications, and in accordance with the Contract Documents.

The fifth and sixth number to the right of the decimal place (NN), in the item number, is a serialized number to match the different types of curb ramp configurations depicted in the US Customary Standard Sheets 608-01.

The work shall include demolition, saw cutting, disposal, fill, compaction, construction of the new curb ramps, turning spaces and associated curbing. Also included are detectable warning units (supplied and installed where required), repairs to affected asphalt and concrete (as necessary), topsoil, establishing turf (on disturbed areas), and finish work. All material and labor required to perform these tasks is included. Any required adjustments to utilities shall be performed under the specifications for that work.

MATERIAL

Materials required for this work shall comply with, but are not limited to, the following Sections: 402-2, 502-2, 503-2, 608-2, 609-2, and 610-2.

CONSTRUCTION DETAILS

The work shall be in conformance with the US Customary Standard Sheets 608-01 and 608-03. The work performed shall comply with, but is not limited to, the following Sections of the Standard Specifications: 401-3, 402-3, 502-3, 503-3, 608-3, 609-3, and 610-3.

Any existing utility facilities not indicated to be removed that are damaged by the Contractor's operations performing this work, shall be repaired by the Contractor, to the satisfaction of the Engineer, at no additional cost.

Survey Requirements

The contractor shall be responsible for field verifying all elevations, slopes, and dimensions to ensure that the final layout of sidewalks and curb ramps meet ADA requirements prior to pouring concrete or placing asphalt or pavers. A Contract Control Plan is not necessary for work limited to sidewalks and curb ramps.

METHOD OF MEASUREMENT

Payment will be made at the unit price bid for each type of curb ramp (as shown in the US Customary Standard Sheets 608-01), satisfactorily installed, in accordance with the Contract Documents.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, material, and equipment necessary to satisfactorily complete the work, to the satisfaction of the Engineer. Excavation and disposal under curb ramps and subbase course under curb ramps will be paid for separately. Sidewalk

beyond the upper grade break or turning space, as shown in the US Customary Standard Sheets 608-01, will be paid for separately. Any required Survey shall be paid for separately under the lump sum price bid for survey operations. Any incidental asphalt and concrete materials shall be included in work and not paid separately.

Payment will be made under:

<u><i>Item Number</i></u>	<u><i>Description</i></u>	<u><i>Pay unit</i></u>
608.01050009	Curb Ramp as shown in project details	Each
608.01050109	Curb Ramp Configuration Type 1	Each
608.01050209	Curb Ramp Configuration Type 2	Each
608.01050309	Curb Ramp Configuration Type 3	Each
608.01050409	Curb Ramp Configuration Type 4	Each
608.01050509	Curb Ramp Configuration Type 5	Each
608.01050609	Curb Ramp Configuration Type 6	Each
608.01050709	Curb Ramp Configuration Type 7	Each
608.01050809	Curb Ramp Configuration Type 8	Each
608.01050909	Curb Ramp Configuration Type 9	Each
608.01051009	Curb Ramp Configuration Type 10	Each
608.01051109	Curb Ramp Configuration Type 11	Each
608.01051209	Curb Ramp Configuration Type 12	Each
608.01051309	Curb Ramp Configuration Type 13	Each
608.01051409	Curb Ramp Configuration Type 14	Each

ITEM 608.01050010 - CONCRETE SIDEWALKS - UNREINFORCED
(GRADING INCLUDED)

DESCRIPTION.

The work shall consist of the construction of portland cement concrete sidewalks and necessary grading as shown on the plans.

MATERIALS.

The following requirements of Sections 203 and 608 shall apply: 203-2.02A, 608-2, and 608-2.01.

CONSTRUCTION DETAILS.

The requirements of Subsection 203-3.12 shall apply to the placement of embankment.

The requirements of Subsection 608-3.01 shall apply except that all references to driveways and wire fabric for reinforcement shall be disregarded. The sidewalk shall be constructed without wire fabric for concrete reinforcement.

The location of the sidewalks shall be properly graded to conform with the sidewalk cross-section and line and grade. The graded area shall be firm and dry before placing the concrete and all organic or unsuitable materials, existing curbs, sidewalks, and driveways shall be removed.

METHOD OF MEASUREMENT.

Concrete sidewalks will be measured by the number of cubic yards of cement concrete computed from payment lines shown on the plans.

BASIS OF PAYMENT.

The unit price bid per cubic yard will include all excavation, embankment, preparation of subgrade, and all other materials, equipment, and labor necessary to complete the work as called for on the plans and to the satisfaction of the Engineer.

No separate payment will be made for excavation or embankment above, below, or within the volume of sidewalk placed.

Payment at the unit bid price will be made after the concrete sidewalks and curing application have been properly placed.

ITEM 624.31000003 - CONCRETE VALLEY GUTTER

Description

This work shall consist of the construction of conventionally formed or machine formed Portland Cement concrete valley gutter in accordance with these specifications and in reasonably close conformity with the lines and grades shown on the plans or established by the Engineer.

Materials

- A. The concrete shall be in accordance with Section 624-2.02 Conventionally Formed Concrete Gutter or Section 624-2.05 Machine Formed Concrete Gutter of the Standard Specifications.
- B. Bar reinforcement shall meet the requirements of Section 709-01 Bar Reinforcement, Grade 420 of the Standard Specifications.
- C. Wire reinforcement shall meet the requirements of Section 709-02 Wire Fabric for Concrete Reinforcement of the Standard Specifications.

Construction Details

Section 624-3.02 Conventionally Formed or Machine Formed Concrete Gutter shall apply.

Method of Measurement

Section 624-4.02 of the Standard Specifications shall apply.

Basis of Payment

Section 624-5.02 of the Standard Specifications shall apply.

ITEM 680.51000010 - ALTER ELEVATION OF PULL BOXES

DESCRIPTION:

Under this item the Contractor shall alter the elevation of existing pull boxes in accordance with this specification, the details included in the contract plans, and the directions of the Engineer.

MATERIALS:

Existing pull box frames and covers shall be reused.

Concrete shall meet the material requirements for Portland Cement Concrete, Class A, as outlined under Section 501 of the Standard Specifications.

CONSTRUCTION DETAILS:

The Contractor shall exercise care in removing and reinstalling pull box frames and covers so as not to damage any part thereof. Any component parts damaged by the Contractor shall be repaired or replaced at the Contractor's expense to the satisfaction of the Engineer.

Pull box walls shall be reconstructed as shown on the contract plans.

METHOD OF MEASUREMENT:

This work will be measured as the number of pull boxes altered in accordance with the plans, specifications, and directions of the Engineer.

BASIS OF PAYMENT:

The unit price bid for this item shall include the cost of all labor, equipment, and materials necessary to complete the work.

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DESCRIPTION:

Under this work the contractor shall furnish and apply epoxy reflectorized pavement markings in accordance with these specifications, the Contract Documents, the NYSMUTCD, or as ordered by the Engineer. Items for Special Markings include stop bars and crosswalks.

Yield line symbols are isosceles triangles with height equaling 1.5 times the base dimension:
A small yield line symbol shall have a base dimension of one foot.
A large yield line symbol shall have a base dimension of two feet.
Yield line symbols are to be installed with the Apex of the triangle oriented towards oncoming traffic.

The epoxy marking material shall be hot-applied by spray methods onto bituminous and portland cement concrete pavement surfaces at the thickness and width shown on the Contract Documents. Following a simultaneous application of Standard Glass Beads (Type 2) and Wet/Night Visibility Beads (Type 1), the cured epoxy marking shall be an adherent reflectorized stripe that will provide wet night retro-reflectivity.

MATERIALS REQUIREMENTS:

Epoxy Paint	727-03
Glass Beads for Pavement Markings	727-05

Reflective Glass Spheres

Retro-reflective beads shall be a double drop system of glass spheres consisting of Standard Beads (Type 2) and Wet/Night Visibility Beads (Type 1) as defined in §727-05 Glass Beads for Pavement Markings.

EPOXY APPLYING EQUIPMENT

In general, a mobile applicator shall be a truck mounted, self-contained pavement marking machine, specifically designed to apply epoxy resin materials and reflective glass spheres in continuous line patterns. The applying equipment shall be maneuverable to the extent that straight lines can be followed and normal curves can be made in a true arc. In addition, the truck mounted unit shall be provided with accessories to allow for the marking of cross hatching and other special patterns as directed by the Engineer.

At any time throughout the duration of the project, the Contractor shall provide free access to his epoxy applying equipment for inspection by the Engineer or his authorized representative.

The Engineer may approve the use of a portable applicator in lieu of mobile truck mounted accessories for use in applying special markings only, provided such equipment can demonstrate satisfactory application of reflectorized epoxy markings in accordance with these specifications.

Mobile applying equipment shall be capable of installing up to 19 miles of epoxy reflectorized pavement markings in an eight hour day and shall include the following features:

1. Individual tanks for the storage of Part A and Part B of the epoxy resin.
2. Individual tanks for the storage of Standard (Type 2) and Wet/Night Visibility (Type 1) glass spheres. Each tank shall have a minimum capacity of 3000 lbs.
3. Heating equipment of sufficient capacity to maintain the individual epoxy resin components at the manufacturer's recommended temperature for spray application.
4. Individual dispensers for the simultaneous application of Standard (Type 2) and Wet/Night Visibility (Type 1) glass spheres. Each dispenser shall be capable of applying spheres at a minimum rate of 10 lbs/gal of epoxy resin composition.
5. Metering devices or pressure gauges on the proportioning pumps, positioned to be readily visible to the Engineer.
6. All necessary spray equipment, mixers, compressors, and other appurtenances for the placement of epoxy reflectorized pavement markings in a simultaneous sequence of operations as described in Construction Details, D. Application of Epoxy Reflectorized Pavement Markings.

CONSTRUCTION DETAILS

A. General

All pavement markings shall be placed as shown on the Contract Documents and in accordance with the New York State, Manual of Uniform Traffic Control Devices (MUTCD).

Before any pavement marking work is begun, a schedule of operations shall be submitted for the approval of the Engineer.

At least five (5) days prior to starting striping, the Contractor shall provide the Engineer with the epoxy manufacturer's written instructions for use. These instructions shall include, but not be limited to, material mixing ratios and application temperatures.

When pavement markings are applied under traffic, the Contractor shall provide all necessary flags, markers, signs, etc. in accordance with the MUTCD to maintain and protect traffic, and to protect marking operations and the markings until thoroughly set.

The application of pavement markings shall be done in the general direction of traffic. Striping against the direction of traffic flow shall not be allowed.

The Contractor shall be responsible for removing, to the satisfaction of the Engineer, all tracking marks, spilled epoxy, and epoxy markings applied in unauthorized areas.

When necessary the Contractor shall establish marking line points at 30 foot intervals throughout the length of the pavement or as directed by the Engineer.

B. Atmospheric Conditions

Epoxy pavement markings shall only be applied during conditions of dry weather and on substantially dry pavement surfaces. At the time of installation the pavement surface temperature shall be a minimum of 50°F and the ambient temperature shall be a minimum of 50°F and rising. The Engineer shall be the sole determiner as to when atmospheric conditions and pavement surface conditions are such to produce satisfactory results.

C. Surface Preparation

The Contractor shall clean the pavement and existing durable markings to the satisfaction of the Engineer.

Surface cleaning and preparation work shall be performed only in the area of the epoxy markings application.

At the time of application all pavement surfaces and existing durable markings shall be free of oil, dirt, dust, grease and similar foreign materials. The cost of cleaning these contaminants shall be included in the bid price of this item.

In addition, concrete curing compounds on new portland cement concrete surfaces and existing painted pavement markings on both concrete and bituminous pavement surfaces shall be cleaned and paid for in accordance with §635 Cleaning and Preparation of Pavement Surfaces for Pavement Markings.

D. Application of Epoxy Reflectorized Pavement Markings

Epoxy reflectorized pavement markings shall be placed at the width, thickness, and pattern designated in the Contract Documents.

Marking operations shall not begin until applicable surface preparation work is completed and approved by the Engineer, and the atmospheric conditions are acceptable to the Engineer.

Pavement markings shall be applied by the following simultaneous operation:

1. The pavement surface is air-blasted to remove dirt and residues.
2. The epoxy resin, mixed and heated in accordance with the manufacturer's

recommendations, is uniformly hot-sprayed onto the pavement surface at the minimum specified thickness.

3. Standard (Type 2) and Wet/Night Visibility (Type 1) reflective glass spheres are injected into or dropped onto the liquid epoxy marking. Standard beads (Type 2) shall be applied first immediately followed by the application of Wet/Night Visibility beads (Type 1). Each type shall be applied at a minimum rate of 10 lbs/gal of epoxy resin (minimum total application = 20 lbs/gal).

E. Defective Epoxy Pavement Markings

Epoxy reflectorized pavement markings, which after application and curing are determined by the Engineer to be defective and not in conformance with this specification, shall be repaired. Repair of defective markings shall be the responsibility of the Contractor and shall be performed to the satisfaction of the Engineer as follows:

1. Insufficient film thickness and line width; insufficient glass bead coverage or inadequate glass bead retention.

Repair Method. Prepare the surface of the defective epoxy marking by grinding or blast cleaning. No other cleaning methods will be allowed. Surface preparation shall be performed to the extent that a substantial amount of the reflective glass spheres are removed and a roughened epoxy marking surface remains.

Immediately after surface preparation remove loose particles and foreign debris by brooming or blasting with compressed air.

Repair shall be made by restriping over the cleaned surface in accordance with the requirements of this specification and at the full thickness indicated on the Contract Documents.

2. Uncured or discolored epoxy*; insufficient bond (to pavement surface or existing durable marking).

Repair Method. The defective epoxy marking shall be completely removed and cleaned to the underlying pavement surface in accordance with the requirements of Section 635 - Cleaning and Preparation of Pavement Surfaces, at the Contractor's expense.

The extent of removal shall be the defective area plus any adjacent epoxy pavement marking material extending three feet in any direction.

After surface preparation work is complete, repair shall be made by reapplying epoxy over the cleaned pavement surface in accordance with the requirements of this specification.

*Uncured epoxy shall be defined as applied material that fails to cure (dry) in accordance with the requirements of §727-03 Epoxy Paint; or applied material that fails to cure (dry) within a reasonable time period under actual field conditions, as defined by the Engineer.

Discoloration shall be defined as localized areas or patches of brown, grayish or black colored epoxy marking material. These areas often occur in a cyclic pattern and often are not visible until several days or weeks after markings are applied.

Other defects not noted above, but determined by the Engineer to need repair, shall be repaired or replaced as directed by and to the satisfaction of the Engineer.

All work in conjunction with the repair or replacement of defective epoxy reflectorized pavement markings shall be performed by the Contractor at no additional cost to the State.

METHOD OF MEASUREMENT

Pavement striping (regular lines, cross hatching and special markings) will be measured in feet along the centerline of the pavement stripe and will be based on a 4 inch wide stripe. Measurement for striping with a width greater than the basic 4 inches, as shown on the plans or directed by the Engineer, will be made by the following method:

$$\frac{\text{Plan Width of Striping (inches) X Feet}}{4 \text{ inches}}$$

BASIS OF PAYMENT

The accepted quantities of markings will be paid for at the contract unit price, which shall include the cost of furnishing all labor, materials and equipment to satisfactorily complete the work. The cost for maintaining and protecting traffic during the marking operations shall be included in the price bid. The cost of removal of concrete curing compounds and existing pavement markings will be paid under separate items and are not included in this item.

No payment will be made for the repair or replacement of defective epoxy reflectorized pavement markings.

<u>PAY ITEM NO.</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
685.07150110	White Epoxy Reflectorized Pavement Stripes – 15 mils	Foot

685.07150210	(Wet Night Visibility Spheres) White Epoxy Reflectorized Pavement Letters - 15 mils	Each
685.07150310	(Wet Night Visibility Spheres) White Epoxy Reflectorized Pavement Symbols – 15 mils	Each
685.07150410	(Wet Night Visibility Spheres) White Epoxy Reflectorized Cross Hatching -15 mils Thick	Foot
685.07150510	(Wet Night Visibility Spheres) White Epoxy Reflectorized Pavement Stripes (Special Markings) 15 mils Thick (Wet Night Visibility Spheres)	Foot
685.07150610	Yellow Epoxy Reflectorized Pavement Stripes – 15 mils (Wet Night Visibility Spheres)	Foot
685.07150710	Yellow Epoxy Reflectorized Pavement Stripes (Cross Hatching) 15 mils Thick (Wet Night Visibility Spheres)	Foot
685.07150810	White Epoxy Reflectorized Pavement Yield Line Symbols - Small - 15 mils (Wet Night Visibility Spheres)	Each
685.07150910	White Epoxy Reflectorized Pavement Yield Line Symbols - Large - 15 mils (Wet Night Visibility Spheres)	Each
685.07200110	White Epoxy Reflectorized Pavement Stripes – 20 mils (Wet Night Visibility Spheres)	Foot
685.07200210	White Epoxy Reflectorized Pavement Letters – 20 mils (Wet Night Visibility Spheres)	Each
685.07200310	White Epoxy Reflectorized Pavement Symbols – 20 mils (Wet Night Visibility Spheres)	Each
685.07200410	White Epoxy Reflectorized Pavement Stripes (Cross Hatching) 20 mils Thick (Wet Night Visibility Spheres)	Foot
685.07200510	White Epoxy Reflectorized Pavement Stripes (Special Markings) 20 mils Thick (Wet Night Visibility Spheres)	Foot

685.07200610	Yellow Epoxy Reflectorized Pavement Stripes – 20 mils (Wet Night Visibility Spheres)	Foot
685.07200710	Yellow Epoxy Reflectorized Pavement Stripes (Cross Hatching) 20 mils Thick (Wet Night Visibility Spheres)	Foot
685.07200810	White Epoxy Reflectorized Pavement Yield Line Symbols - Small - 20 mils (Wet Night Visibility Spheres)	Each
685.07200910	White Epoxy Reflectorized Pavement Yield Line Symbols - Large - 20 mils (Wet Night Visibility Spheres)	Each

(On Construction firms letterhead)

Date Issued: _____

Dear Resident:

We are sorry to inconvenience you, but in order to proceed with construction for _____ we must close and/or limit your access to your driveway. As work progresses, you will be notified on a daily basis when and how your particular residence will be affected. We assure you that every effort will be made to minimize the impact to you relative to this construction.

Our current schedule calls for the project related work to be performed in your area during the week of _____. A copy of this letter with specific dates and time for this work will be delivered at least twenty-four (24) hours in advance in order that you will have sufficient opportunity to plan for accessibility to your vehicles.

If additional information is necessary, you may contact any of the representatives listed below.

Thank you for your patience.

Contractor	_____	Phone: _____
Inspector	_____	Phone: _____
Project Manager	_____	Phone: _____

(On Construction firms letterhead)

Date Issued: _____

CONSTRUCTION NOTIFICATION
24 HOUR NOTICE

Date & Type of Construction: _____
How will residence be affected: _____
Approximate time of
Construction: _____

Driveway access (will) (will not) be permitted.