ADDENDUM NO. 1

TOWN OF LEWIS CARLOTT ROAD BRIDGE CONSTRUCTION

TO: All Bidders

DATE: March 28, 2013

This Addendum, issued to bid document holders of record, indicates changes to the bid documents for the *CARLOTT ROAD BRIDGE CONSTRUCTION* Bid Opening April 17, 2013.

Please find attached the DRAWINGS for the bid which were omitted.

END OF ADDENDUM #1

OWN OF **CZT** BLIC WORKS EWIS, N.Y.

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PROJECT COORDINATION NOTES

EROSION CONTROL, DEMOLITION, EXCAVATION AND DEWATERING.
SURVEY LAYOUT OF ALL CAST-IN-PLACE CONCRETE WORK
AND PRECAST STRUCTURES.
SUBMITTALS AND SHOP DRAWINGS FOR ALL CAST-IN-PLACE CONCRETE WORK, INCLUDING BRIDGE FOUNDATION, HEADWALLS AND WINGWALL FOOTINGS.
FORMWORK, REINFORCING AND PLACEMENT FOR CAST-IN-PLACE CONCRETE FOOTINGS AND HEADWALLS.
INSTALLATION OF PRECAST CONCRETE STRUCTURES.
GROUTING OF JOINTS AND SHEAR KEYWAYS.
MEMBRANE WATERPROOFING, DRAINAGE BOARD AND GEOTEXTILE FARRIC. WORK BY CONTRACTOR — THE CONTRACTOR SHALL PERFORM ALL WORK FOR THE PROJECT NOT SPECIFICALLY NOTED TO BE PERFORMED BY THE PRECAST CONCRETE STRUCTURES SUPPLIER OR THE OWNER INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

- BACKFILLING AND SOIL COMPACTION FOR STRUCTURES TO THE TO THE INDICATED ELEVATIONS.

- BRIDGE RAILING.

- GEOTEXTILE FABRIC AND RIPRAP FOR BRIDGE AND WINGWALLS.

- COORDINATION WITH THE PRECAST CONCRETE STRUCTURES SUPPLIER REGARDING SCHEDULING FOR DELIVERY OF PRECAST UNITS AND RENTAL COSTS FOR ALL LIFTING DEVICES.

- OFF-LOADING OF ALL BRIDGE AND WINGWALL SYSTEM MATERIALS, INCLUDING PAYMENT OF DELAY CHARGES AS APPLICABLE, SEE SPECIFICATION SECTION 03412.

RECAST CONCRETE STRUCTURES SUPPLIER — THE ONCRETE SUPPLIER SHALL PERFORM THE FOLLOWING THE PROJECT:

I THE PRECAST CONCRETE BRIDGE SYSTEM.

I THE PRECAST CONCRETE CRIB—TYPE WINGWALL

I THE PRECAST CONCRETE CRIB—TYPE WINGWALL

SYSTEMS.

SYSTEMS.

SUBMIT DRAWINGS AND CALCULATIONS FOR THE PRECAST CONCRETE BRIDGE AND WINGWALL SYSTEMS.

CONCRETE BRIDGE AND WINGWALL SYSTEMS.

FABRICATE THE PRECAST CONCRETE BRIDGE AND WINGWALL SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATION SECTIONS.

COMPLETE MATERIAL TESTING DURING FABRICATION OF THE PRECAST CONCRETE UNITS AS SPECIFIED.

PROVIDE ALL LIFTING DEVICES REQUIRED FOR OFF—LOADING AND INSTALLATION OF ALL PRECAST CONCRETE UNITS BY THE CONTRACTOR.

PROVIDE AND WINGWALL SYSTEMS INCLUDING, BUT NOT LIMITED TO, WINGWALL SHEAR KEY BLOCKS, BACKER RODS AND FOAM JOINT SEALANTS FOR BRIDGE JOINT CONSTRUCTION, REBAR SPLICES CAST IN THE PRECAST UNITS TO RECEIVE THE CAST—IN—PLACE HEADWALLS, WEEP HOLES CAST INTO THE BRIDGE UNITS, AND BUTYL WALL JOINT WRAP FOR INSTALLATION BY THE CONTRACTOR.

BY OWNER — THE OWNER SHALL PERFORM THE FOLLOWING FOR THE PROJECT:

ROADWAY CLOSURE, DETOUR SIGNAGE AND BARRICADES.
REOTEXTILE FABRIC, SUBBASE AND SURFACE COURSE FOR PAVEMENTS.
RACKFILL ABOVE ELEVATION LIMITS INDICATED FOR THE WORK OPSOIL AND SEEDING. RAIL. RETE AND SOIL COMPACTION TESTING,

GENERAL NOTES

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6th EDITION — 2012 INCLUDING ALL CURRENT REVISIONS. MATERIAL SPECIFICATIONS: NEW YORK STATE DEPARTMENT OF CONSTRUCTION AND MATERIALS, 2008 AS AMENDED TO JANUARY 10, 2013.

BRIDGE DESIGN CRITERIA: THE REPLACEMENT BRIDGE SHALL BE A PRECAST REINFORCED CONCRETE THREE—SIDED BRIDGE STRUCTURE CONFORMING WITH THE REQUIREMENTS OF SPECIFICATION SECTION 03412 WITH CAST—IN—PLACE CONCRETE FOOTINGS AND HEADWALLS. THE FOLLOWING PARAMETERS SHALL BE USED IIN THE DESIGN OF THE PRE—ENGINEERED BRIDGE:

TREAM PROTECTION: DURING THE COURSE OF CONSTRUCTION, IE WORK SHALL BE CONDUCTED IN A MANNER AS TO REVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO THE TREAM FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER DREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND REMATERIALS IN OR NEAR THE STREAM.

WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES, SHALL NOT BE RETURNED DIRECTLY TO THE STREAM. IF WATER IS USED FROM THE STREAM, AN INTAKE OR TEMPORARY DAM SHALL BE CONSTRUCTED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO PROTECT FISH LIFE DOWNSTREAM.

THE ROADWAY AT THE PROJECT SITE SHALL BE CLOSED TO TRAFFIC DURING THE DEMOLITION AND CONSTRUCTION OPERATIONS. SEE MAINTENANCE AND PROTECTION OF TRAFFI NOTES.

THE OWNER HAS OBTAINED PERMITS FOR THIS PROJECT FROM APPROPRIATE REGULATORY AGENCIES. PERMIT CONDITIONS SHALL BE CONSIDERED A PART OF THIS WORK AND SHALL BE STRICTLY ADHERED TO. TRAFFIC

DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THE CONSTRUCTION DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTIONS AND OTHER AVAILABLE INFORMATION. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE CONSTRUCTION DETAILS AND WORK QUANTITIES.

LIVE LOAD: DESIGN TRUCK OR DESIGN TANDEM AND DESIGN LANE LOAD.

DEAD LOADS: PER AASHTO REQUIREMENTS PLUS 40 PSF ALLOWANCE FOR FUTURE ASPHALT WEARING SURFACE.

GENERAL NOTES (CONT.)

SUBMITTALS: THE CONTRACTOR SHALL SUBMITTALS: THE CONTRACTOR SHALL SUBMITTALS FOR SHAWINGS AND SUBMITTALS FOR SUBMITTALS FOR REVIEW BY ESSEX COUNTY IN LIEU OF HARD COPIES, (1) COPY OF INFORMATION MAY BE SUBMITTED ELECTREABRICATION OF THESE ITEMS SHALL BE SUBMITTALS HAVE BEEN REVIEWED AND UNTIL THE WING GINEER.

A. SHOP DRAWINGS.
B. CONCRETE MIX DESIGNS.
CONCRETE REINFORCING STEEL SHOP
GEOTEXTILE FABRIC.
SILT FENCE.
BACKFILL AND SUBBASE GRADATION R.
DRAINAGE BOARD.
MEMBRANE WATERPROOFING.
NON—SHRINK GROUT.
DEWATERING PLAN.

REFER SPECIFICATION 03412 FOR SUBMITTALS BY THE PRECAST CONCRETE STRUCTURES SUPF PRECAST BRIDGE. REFER TO WINGWALL SYSTEM DRAWING, FOR SUBMITTALS REQUIRED TO BE PIPRECAST CONCRETE STRUCTURES SUPPLIER FOW WINGWALL SYSTEMS. PROVIDED
FOR THE
S, THIS
ED BY THE

A SUBSURFACE INVESTIGATION WAS COMPLETED AT THE PROJECT SITE BY F. A. DENTE ENGINEERING, P.C. COPIE. THE SUBSURFACE INVESTIGATION REPORT ARE AVAILABLE OFFICES OF THE ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS FOR REVIEW. ESSEX COUNTY DOES NOT CLAIM THE INFORMATION INCLUDED IN THE REPORT IS REPRESE OF THE ACTUAL SUBSURFACE CONDITIONS AT ALL LOCATI WITHIN THE PROJECT LIMITS. THE CONTRACTOR MAY, AT I COST, TAKE ADDITIONAL SOIL BORINGS AS REQUIRED TO PREPARE THE BID. NO ADDITIONAL REQUESTS FOR PAYMIFOR DIFFERING SUBSURFACE CONDITIONS SHALL BE PERI YMENT ERMITTED. THAT SENTATIVE ATIONS IT HIS HES OF

SURVEY NOTES

ELEVATIONS ARE BASED ON AN ARBITRARY

TWO FOOT CONTOUR INTERVAL INDICATED.

THE LAYOUT OF ALL WORK FOR THE PROJECT BY A LICENSED SURVEYOR RETAINED BY THE

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

THE SAFE MAINTENANCE AND PROTECTION OF TRAFFIC AND AROUND THE SITE SHALL BE THE RESPONSIBILITY OF THE OWNER DURING THE COURSE OF THE WORK.

THE BRIDGE SHALL BE CLOSED TO ALL TRAFFIC DURING COURSE OF THE WORK. DETOUR SIGNAGE FOR THE C. SHALL BE PROVIDED AND INSTALLED BY THE OWNER. CONSTRUCTION SITE SIGNAGE IN THE VICINITY OF THE SHALL BE PROVIDED AND INSTALLED BY THE OWNER. PROJECT

TEMPORARY CONCRETE BARRIERS AND LIGHTED CLOSURE BARRICADES SHALL BE PROVIDED AND INSTALLED BY THE OWNER AT EACH END OF THE PROJECT SITE BEFORE COMMENCING WORK. BARRIERS AND BARRICADES SHALL REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.

ALL DRIVEWAYS IN THE VICINITY OF THE PROJECT SITE SHALL REMAIN UNBLOCKED AND OPEN TO TRAFFIC AT ALL TIMES.

DEMOLITION AND REMOVAL NOTES

DRAWINGS OF THE EXISTING BRIDGE AND THE EXISTING WINGWALLS ARE NOT AVAILABLE. INFORMATION REGARDING THE EXISTING STRUCTURE SHOWN ON THE DRAWINGS IS SCHEMATIC ONLY.

DURING DEMOLITION AND REMOVAL OPERATIONS, DO NOT DROP WASTE CONCRETE, TIMBER, STEEL, DEBRIS OR OTHER MATERIAL INTO THE AREA BELOW THE BRIDGE. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH DEMOLITION DEBRIS. IF, IN THE OPINION OF THE ENGINEER, ADEQUATE PROTECTION DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED. ANY DEBRIS FALLING INTO THE WATERWAY SHALL BE PROMPTLY REMOVED.

UNLESS SPECIFICALLY NOTED OTHERWISE, ALL ITEMS NOTED "TO BE REMOVED" SHALL BE DISPOSED OF OFF—SITE IN A LEGAL MANNER.

DEWATERING NOTES

DEWATERING FACILITIES SHALL BE PROVIDED BY THE DEWATER AREAS WERE EXCAVATION WORK WILL BE IN NECESSARY TO REMOVE EXISTING STRUCTURES AND RECONSTRUCTION. DEWATERING METHODS SHALL INCLUDIFIERDAMS AND TEMPORARY PUMPS AND PIPING A COFFERDAMS AND THE PROVIDERT WATER WITHIN COFFERDAMS AROUND THE PROVIDERT WATER WATER WITHIN COFFERDAMS AROUND THE PROVIDERT WATER WATER WITHIN COFFERDAMS AROUND THE PROVIDERT WATER WA HE CONTRACTOR TO
PERFORMED AS
D FOR CHANNEL REQUIRED TO IECT SITE.

LICENSED TO PRACTICE IN THE STATE OF NEW YORK TO DESIGN A DEWATERING SYSTEM FOR THE PROJECT. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER. THE PLAN SHALL INDICATE PROPOSED COFFERDAM DESIGN, DIVERSION PUMP SIZES AND LOCATIONS, PIPING SIZES, TEMPORARY CULVERTS AND OTHER ELEMENTS OF THE DEWATERING SYSTEM. THE DEWATERING PLAN SHALL BE DESIGNED TO PROVIDE A STABLE EXCAVATION, DEWATERED TO A LEVEL BELOW THE BOTTOM OF FOOTING ELEVATION. THE CONTRACTOR SHALL SUBMIT THE DEWATERING PLAN, INCLUDING CALCULATIONS SIGNED AND SEALED BY THE DEWATERING DESIGN ENGINEER FOR REVIEW AND ACCEPTANCE BY ESSEX COUNTY AND THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, BEFORE COMMENCING ANY EXCAVATION OR DEMOLITION WORK FOR THE PROJECT.

HE DEWATERING SYSTEM SHALL INCLUDE PUMPS TO DATER FROM THE EXCAVATION WITHIN THE COFFERDAMS EDIMENT FILTRATION BAGS, ENCLOSED WITHIN A SILT INSTALLED AT THE LOCATIONS SHOWN ON THE DEMOLITIES. ENCE, SCHARGE

THE CONTRACTOR SHALL PROVIDE A STANDBY PUMP OF EQUAL CAPACITY TO THE PUMPS TO BE USED IN THE DEWATERING SYSTEM

RIPRAP NOTES

ALL RIPRAP SHALL BE SOUND CLEAN ANGULAR STONE OF THE SIZES INDICATED ON THE DRAWINGS. RIPRAP SHALL BE FREE OF ORGANIC MATERIALS, DEBRIS, SOIL AND OTHER DELETERIOUS MATTER.

STONE SIZES SHALL CONFORM TO THE REQUIREMENTS OF NYSDOT STANDARD SPECIFICATION SECTION SECTION 620 AND SHALL BE WELL GRADED WITHIN THE LIMITS INDICATED WITH SUFFICIENT SMALLER STONE TO FILL THE VOIDS BETWEEN LARGER STONES.

ALL RIPRAP SHALL BE MACHINE OR HAND PLACED AND HAND CHINKED TO PROVIDE A UNIFORM FINISH SURFACE TRUE TO THE GRADES INDICATED ON THE DRAWINGS.

STONE SIZES SHALL BE EVENLY DISTRIBUTED THROUGHOUT.

THE MINIMUM LAYER THICKNESS SHALL BE AS INDICATED ON THE DRAWINGS.

ROSION CONTROL

ALL SILT FENCES AND COFFERDAMS SHALL BE IN PLACE AT THE LOCATIONS INDICATED ON THE DRAWINGS BEFORE DISTURBING THE EXISTING GROUND SURFACE.

ALL EXPOSED CUT AND FILL EARTH SURFACES NOT COVERED BY PAVEMENT OR STRUCTURES IN THE FINAL WORK SHALL BE COVERED WITH A MINIMUM 3 IN. TOPSOIL LAYER, CONFORMING WITH NYSDOT ITEM NO. 613.0101 AND TURFED CONFORMING WITH NYSDOT STANDARD SPECIFICATION SECTION 610.

SILT FENCES SHALL REMAIN IN PLACE UNTIL A STABLE GROWTH OF VEGETATION IS PRESENT IN ALL AREAS.

DURING THE COURSE OF THE WORK, ALL OPERATIONS REQUIRING WORK WITHIN THE WATERWAY SHALL BE CONDUCTED TO PREVENT THE DOWNSTREAM MIGRATION OF DEBRIS OR SEDIMENT.

ARTHWORK NOTES

EXCAVATION SHALL BE TO ELEVATIONS INDICATED WITH A TOLERANCE OF PLUS OR MINUS 1". EXCAVATIONS SHALL BE SUFFICIENT SIZE FOR PLACING AND REMOVING FORMS, AS WELL AS INSPECTIONS.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL STAKE OUT ALL CAST—IN—PLACE CONCRETE WORK AND SHALL VERIFY GRADES AND ELEVATIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

BACKFILL MATERIALS FOR THE WINGWALLS AND BRIDGE STRUCTURE SHALL BE STRUCTURAL FILL CONFORMING WITH NYSDOT SPEC SECTION 733-04, SUBBASE MATERIAL, TYPE 4. EXCAVATED SITE MATERIAL MAY BE USED FOR GENERAL FILLING, OUTSIDE THE EXCAVATION LIMITS OF THE STRUCTURES.

ALL BACKFILL SHALL BE PLACED IN MAXIMUM 12" LIFTS AND COMPACTED TO 95% OF THE MAXIMUM DENSITY AS ESTABLISHED THROUGH THE MODIFIED PROCTOR COMPACTION TEST PER ASTM 1–1557.

MATERIAL STOCKPILES, IF REQUIRED, SHALL BE LOCATED WHOLLY WITHIN THE WORK AREA. ADDITIONAL SILT FENCES SHALL BE PROVIDED AT THE BASE OF ALL STOCKPILES.

ALL TRENCHES AND OTHER EXCAVATION SIDE SLOPES INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO INDICATE A STABLE EXCAVATION SLOPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND STABILITY OF ALL EXCAVATION SLOPES, SHEETING, SHORING, TRENCH BOXES, AND ANY OTHER MEANS REQUIRED FOR A SAFE WORK ENVIRONMENT AND FOR PROTECTION OF ADJACENT ROADWAYS AND OTHER STRUCTURES. ALL EXCAVATION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING REGULATORY AGENCIES:

—SUBPART 23—4, "EXCAVATION OPERATIONS", OF NEW YORK DEPARTMENT OF LABOR INDUSTRIAL CODE RULE 23.

PREFABRICATED DRAINAGE BOARD SHALL BE MIRA DRAIN AS MANUFACTURED BY T.C. MIRAFI OR EQUIVALENT. WRAP DRAINAGE BOARD IN FILTER FABRIC.

-SUBPART P, "EXCAVATIONS" OF THE UNITED STATES DEPARTMENT OF LABOR OSHA REGULATIONS FOR CONSTRUCTION.

-ALL OTHER MUNICIPAL, COUNTY, STATE OR FEDERAL AGENCIES, REGULATIONS OR LAWS PERTAINING TO EXCAVATION SAFETY AS MAY APPLY AT THE WORK SITE.

BRIDGE AND GUIDERAIL NOTES

GUIDERAIL SHALL COMPLY WITH THE PROVISIONS OF THE NEW YORK STATE STANDARD SPECIFCATIONS — CONSTRUCTION AND MATERIALS SECTIONS 606 AND 710-21. OF THE

FABRICATION AND INSTALLATION OF GUIDERAIL SHALL COMPLY WITH NYSDOT STANDARD DETAIL SHEET 606-04, BOX BEAM GUIDERAIL.

FABRICATION AND INSTALLATION OF BRIDGE RAIL SHALL COMPLY WITH NYSDOT BRIDGE DESIGN DETAIL SHEET BD— RS1E TO BD—RS8E "STEEL BRIDGE RAILING" AND TO BD—CB8E "PRECAST CONCRETE UNIT RAILING DETAILS".

BRIDGE RAIL SUPPLIER SHALL SUPPLY ANCHORS BRIDGE RAIL. COORDINATE ANCHOR SPACING AND THE CONTRACTOR.

ANCHOR ROD MATERIAL SHALL CONFORM TO ASTM F1554, GRADE 36 MATERIAL. ANCHORS SHALL BE SUPPLIED WITH HEAVY HEX NUTS CONFORMING TO ASTM A563 AND HARDENED CARBON STEEL WASHERS CONFORMING TO ASTM F436.

ALL STEEL SHAPES PLATES, ETC. FOR THE GUIDERAIL AND BRIDGE RAIL SHALL BE HOT—DIP GALVANIZED CONFORMING WITH ASTM A123 AND NYSDOT SPEC SECTION 719—01. REPAIRS TO DAMAGED GALVANIZING SHALL COMPLY WITH NYSDOT SPEC SECTION 719—01.

CAST-IN-PLACE CONCRETE FOR HEADWALLS SHALL BE NYSDOT I

CONTRACTOR TO NOTE THAT AMBIENT AIR TEMPERATURE DURING THE CONSTRUCTION PERIOD ANTICIPATED FOR CONCRETE WORK MAY REQUIRE PROVISIONS FOR COLD WEATHER CONCRETING. THE CONTRACTOR'S BID SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR SUCH COLD WEATHER CONCRETING.

ALL REINFORCING STEEL SHALL BE EPOXY COATED TO COMPLY WITH THE REQUIREMENTS OF NYSDOT SPECIFICATION SECTION 709—04, UNLESS NOTED OTHERWISE. PLACEMENT OF REINFORCING STEEL SHALL COMPLY WITH THE REQUIREMENTS OF NYSDOT SPECIFICATION SECTION 556.

EPOXY ADHESIVE FOR BONDING FRESH CONCRETE TO EXISTING CONCRETE SHALL BE SIKA ARMATEC 110 AS MANUFACTURED BY SIKA CORP. OR EQUIVALENT.

NON-SHRINK GROUT SHALL BE "5-STAR" GROUT AS MANUFACTURED BY FIVE STAR PRODUCTS, INC.. MIX AND PLACE GROUT IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GROUTING FOR BRIDGE DECK JOINTS SHALL COMPLY WITH THE REQUIREMENTS OF NYSDOT SPECIFICATION SECTION 701—06 "CEMENT BASED GROUT MATERIA;S FOR SHEAR KEYS".

THE OWNER SHALL RETAIN A TESTING LABORATORY CERTIFIED BY THE NYS DEPARTMENT OF TRANSPORTATION TO CONDUCT CONCRETE TESTING DURING CONSTRUCTION. REPRESENTATIVES OF THE TESTING LABORATORY SHALL BE PRESENT ON—SITE DURING ALL CONCRETE PLACEMENT OPERATIONS AS SPECIFIED IN NYSDOT SPECIFICATION SECTION 555. THE FOLLOWING TESTING SHALL BE PERFORMED:

-SAMPLING FRESH CONCRETE: ASTM C 172 AS MODIFIED FOR SLUMP TO COMPLY WITH ASTM C 94. --AIR CONTENT: ASTM C 173, VOLUMETRIC METHOD OR ASTM C 231, PRESSURE METHOD FOR EACH SET FOR EACH SET OF COMPRESSIVE TEST SPECIMENS. —SLUMP: ASTM C 143, ONE TEST AT THE POINT OF DISCHARGE FOR EACH SET OF COMPRESSIVE TEST SPECIMENS. PERFORM ADDITIONAL TESTS WHEN THE CONSISTENCY OF THE CONCRETE APPEARS TO CHANGE.

-CONCRETE TEMPERATURE: ASTM C 1064 FOR EACH SET OF COMPRESSIVE TEST SPECIMENS. TEST HOURLY WHEN AIR TEMPERATURE FALLS BELOW 40 DEG. F. OR WHEN AIR TEMPERATURE EXCEEDS 80 DEG, F. -COMPRESSIVE TEST SPECIMENS: ASTM C 31 ONE SET OF 4 STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS.

-COMPRESSIVE STRENGTH TESTS: ASTM C 39, ONE SET FOR EACH DAYS PLACEMENT EXCEEDING 2 CU. YDS. PLUS ONE ADDITIONAL SET FOR EACH ADDITIONAL 15 CU. YDS. PLACED IN ANY ONE DAY. TEST ONE SAMPLE AT 7 DAYS AND TWO AT 28 DAYS, WITH ONE SAMPLE HELD IN RESERVE FOR LATER TESTING. WHEN FREQUENCY OF TESTING WILL PROVIDE LESS THAN 5 STRENGTH TESTS CONDUCT ADDITIONAL TESTS FROM RANDOMLY SELECTED BATCHES.

-TEST REPORTS: TEST RESULTS WILL BE REPORTED IN WRITING TO ESSEX CO. DPW AND TO THE ENGINEER WITHIN 24 HOURS OF THE TESTS. REPORTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF PLACEMENT, NAME OF THE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF THE CONCRETE IN THE STRUCTURE, DESIGN COMPRESSIVE STRENGTH, BATCH PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH AND TYPE OF BREAK FOR BOTH 7 AND 28 DAYS TESTS.

HEADWALLS SHALL RECEIVE A HARD TROWEL FINISH.

FOR THE LOCATION WITH

TOPSOIL SHALL COMPLY WITH NYSDOT STANDARD SPEC. SECTION 610.

GEOTEXTILE FABRIC SHALL COMPLY WITH NYSDOT STANDARD SPECIFICATION SECTION 207. ALL FABRIC SHALL APPEAR ON THE NYSDOT LIST OF APPROVED MATERIALS FOR THE USE INDICATED.

SEEDING AND MULCHING SHALL COMPLY WIYH NYSDOT STANDARD SPEC. SECTION 610.

ALL NEW GRADES SHALL BE BLENDED SMOOTHLY WITH EXISTING GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN NEW GRADING AND EXISTING SURFACES TO REMAIN.

CRUSHED STONE, WHERE CALLED FOR ON THE DRAWINGS, SHALL CONFORM TO NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 703—02, SIZE DESIGNATION 2. THE STONE SHALL BE PLACED IN MAXIMUM 12" LIFTS AND SHALL BE WELL COMPACTED WITH A VIBRATORY PLATE TAMPER OR OTHER SUITABLE EQUIPMENT.

THE MORE STRINGENT PROVISION IN EACH OF THE ABOVE CODES SHALL APPLY. THESE PROVISIONS SHALL BE CONSIDERED MINIMUM REQUIREMENTS AND SHALL BE INCREASED IF NECESSARY TO PROVIDE SAFE WORKING CONDITIONS.

CODES

STEEL BOLTS, NUTS, WASHERS AND MISC. HARDWARE SHALL BE HOT DIP GALVANIZED CONFORMING WITH ASTM A153 AND NYSDOT SPEC SECTION 719-01.

2. THE OWNER SHALL RETAIN AN INDEPENDENT QUALIFIED GEOTECHNICAL TESTING AGENCY TO PERFORM SOIL COMPACTION TESTING. SUBMIT ONE COPY OF ALL TEST REPORTS TO THE OWNER AND THE ENGINEER. FIELD IN-PLACE DENSITY TESTS SHALL BE PERFORMED BY EITHER ASTM D 1556 (SAND CONE METHOD) OR ASTM D 2922 (NUCLEAR METHOD). TESTS SHALL BE PERFORMED IN ALL BACKFILL, ONE TEST PER 250 SQUARE FEET OF BACKFILL SURFACE, MINIMUM (2) TEST PER LIFT.

PER

CONCRETE NOTES

THE FOOTINGS AND ITEM 555.0105, CLASS A.

CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF NYSDOT SPECIFICATION SECTION 555, "STRUCTURAL CONCRETE".

WINGWALL SYSTEMS SHALL BE DESIGNED, FABRICATED AND DELIVERED TO THE SITE BY THE PRECAST CONCRETE STRUCTURES SUPPLIER FOR OFF—LOADING BY THE CONTRACTOR. SCHEDULING OF ALL DELIVERIES SHALL BE BY THE CONTRACTOR. WINGWALLS SHALL BE A PRECAST CONCRETE CRIB—TYPE RETAINING WALL IN ACCORDANCE WITH NYSDOT STANDARD SPEC. SECTION 554. WINGWALL SYSTEMS SHALL BE T—WALL, AS MANUFACTURED BY THE FORT MILLER COMPANY, OR APPROVED EQUIVALENT.

WINGWALL SYSTEM NOTES

1. WINGWALLS SHALL BE A PRECAST CONCRE

ESIGN PARAMETERS FOR THE WINGWALL SYSTEMS SHALL BE AS FOLLOWS:

- WALL HEIGHTS AS INDICATED.
- BACKFILL FILL SLOPES AS INDICATED.
- PRECAST CONCRETE WALL SYSTEM UNITS.
- VERTICAL FRONT FACE.
- FILL PROPERTIES TO CONFORM TO NYSDOT SPEC. SECTION 733—04, SUBBASE MATERIAL, TYPE 4.
- WALL SYSTEMS TO BE STABLE FOR THE HEIGHTS INDICATED WITHOUT THE NEED FOR METAL MESH OR GEOGRID FABRIC REINFORCING ELEMENTS WITHIN THE SOIL BACKFILL.
- CAST—IN—PLACE REINFORCED CONCRETE FOOTING, AS INDICATED ON THE DRAWINGS, TO BE USED AS THE LEVELING PAD FOR THE BASE COURSE.

ALL EXPOSED SURFACES OF PRECAST CONCRETE WINGWALL UNITS SHALL RECEIVE AN EXPOSED AGGREGATE FINISH, COLOR BROWN.

THE PRECAST CONCRETE WINGWALLS SHALL BE A PRE-ENGINEERED SYSTEM. THE PRECAST CONCRETE STRUCTURE SUPPLIER SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS, BOTH SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEW YORK STATE, FOR REVIEW AND APPROVAL BY THE OWNER PRIOR TO FABRICATION OF THE WALL UNITS.

THE TOPS OF THE WALL SYSTEM ELEMENTS SHALL BE UNIFORMLY SLOPED BETWEEN CONTROL ELEVATIONS INDICATED ON THE DRAWINGS.

THE WALL SYSTEM FABRICATION AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF NYSDOT SPEC. SECTION 554 AND ALL SYSTEM MANUFACTURER'S AND DESIGNER'S REQUIREMENTS.

EXCEPT

FOR REVIEW
FOR CONSTRUCTION
CHANGES PER COUNTY
REVIEW.

NAUTHORIZED ALTERATION OR ADDITION TO IS DOCUMENT IS A VIOLATION OF SECTION OP SUBDIVISION 2 OF THE NEW YORK STATE UCATION LAW.

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PROJ. NO: 12-474.10 CHK'D BY: CBS
CLIENT NAME
CSSEX COUNTY DEPARTMENT
OF PUBLIC WORKS
ELIZABETHTOWN, N.Y. NOTED DRAWN BY: 2/1/13 ENG. BY: -474.10 CHK'D BY:

CARLOTT ROAD BRIDGE
OVER SPRUCE MILL BROOK
BRIDGE REPLACEMENT

GENERAL NOTES

SHT. 1 OF REV. 2









