STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 1 TO PROJECT NO. 44964

CONSTRUCTION
PROVIDE PALMER POND ADMINISTRATIVE USE BRIDGE AND TRAIL
VANDER WHACKER MT. FOREST
BLUE RIDGE ROAD
TOWN OF NORTH HUDSON, ESSEX CO., NY

February 25, 2016

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

SPECIFICATIONS

1. ALL SPECIFICATIONS: Where the Town within the address is listed as, *"Minerva, NY"*, change to, *"North Hudson, NY"*.
2. DOCUMENT 000110 TABLE OF CONTENTS: Appendix, add, "Notice of Intent"
3. DOCUMENT 014100 REGULATORY REQUIREMENTS: Discard the specification bound in the Project Manual and use the accompanying specification noted "Revised 02/22/2016".
4. DOCUMENT 031100 CONCRETE FORMWORK: Discard the specification bound in the Project Manual and use the accompanying specification noted "Revised 02/22/2016".
5. DOCUMENT 312316 ROCK REMOVAL: Discard the specification bound in the Project Manual and use the accompanying specification noted "Revised 02/22/2016".
6. DOCUMENT 323129 WOOD FENCES AND GATES: Discard the specification bound in the Project Manual and use the accompanying specification noted "Revised 02/22/2016".
7. DOCUMENT 323400 FABRICATED BRIDGES: Discard the specification bound in the Project Manual and use the accompanying specification noted "Revised 02/22/2016".
8. DOCUMENT 344113 TRAFFIC SIGNS: Discard the specification bound in the Project Manual and use the accompanying specification noted "Revised 02/22/2016".

DRAWINGS

9. Drawing No. G-002:
   a. Revise Geotechnical Note 11 to replace word "should" with "shall".
   b. Revise General Construction Notes 2 and 2A to replace word "clearance" with "clearing".
   c. Add General Construction Note 2E: All tree cutting shall be completed before May 31, 2016.

10. Drawing No. C-101: Discard drawing and replace with the accompanying Drawing C-101 with revision date 2/22/2016.
11. Drawing No. C-103: Discard drawing and replace with the accompanying Drawing C-103 with revision date 2/22/2016.
12. Drawing No. C-502: Discard drawing and replace with the accompanying Drawing C-502 with revision date 2/22/2016.

APPENDIX

13. Include the attached Notice of Intent as part of the Appendices.

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction

SECTION 014100

REGULATORY REQUIREMENTS

PART 1 GENERAL

1.01 COMPLIANCE

A. Comply with applicable regulatory requirements and various codes referenced in these specifications. Where conflicts exist between local, State, and/or Federal regulatory requirements, codes, or these specifications advise the Director's Representative. The Director's Representative will assist in resolving the conflicts to the satisfaction of the regulatory agencies prior to commencing the Work.

1.02 CODES

A. All Work shall comply with the New York State Uniform Fire Prevention and Building Code (the "Uniform Code"), which includes the current editions of Part 1220 (Residential Code), Part 1221 (Building Code), Part 1222 (Plumbing Code), Part 1223 (Mechanical Code), Part 1224 (Fuel Gas Code), Part 1225 (Fire Code), Part 1226 (Property Maintenance Code), and Part 1227 (Existing Building Code) and their referenced standards. The referenced codes shall be the date of latest revision in effect at the time of receiving bids, unless the date is given.

1. The contractor shall be aware of, and comply with, contractor requirements identified in the above referenced codes; for example, but not limited to: Building Code of New York State - Chapter 33 Safeguards During Construction and Existing Building Code of New York State - Chapter 14 Construction Safeguards (which governs safety during construction).

B. All Work shall be performed in accordance with New York State Department of Transportation regulations and requirements for Maintenance and Protection of Traffic.

C. All Work shall be performed in accordance with General Permit #GP-0-10-001 and the Erosion and Sedimentation Measures identified in Drawings C-101 and C-501.

1.03 STATE REQUIRED PERMITS AND INSPECTIONS

A. No Adirondack Park Agency (APA) permit or other project specific approval is required for performance of this Work.

B. Stormwater discharges associated with construction activity under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-10-001 applies to this project. A Notice of Intent (NOI) has been filed and is included in the Appendices of the Project Manual.

1.04 UTILITIES

A. Underground Utilities:

1. Locate existing underground utilities prior to commencing excavation work. Conform to all requirements of NYCRR 16 Part 753, including the following:
   a. Notify Dig Safely New York at least 48 hours in advance not counting the date of contact.
      1) Statewide: 800-962-7962.
      2) Website: www.digsafelynewyork.com
   b. Refer to Section 023313 Underground Utility Locator Service of the Project Manual to locate all utilities on facility and/or private property.
   c. Determine exact utility locations by hand excavated test pits. Contractor will be responsible for the proper support and protection of all utilities to remain in service.

B. Overhead Utilities:

1. Primary electric line indicated on Drawing C-101 shall be removed by others by August 31, 2016.

PART 2 PRODUCTS (Not Used)

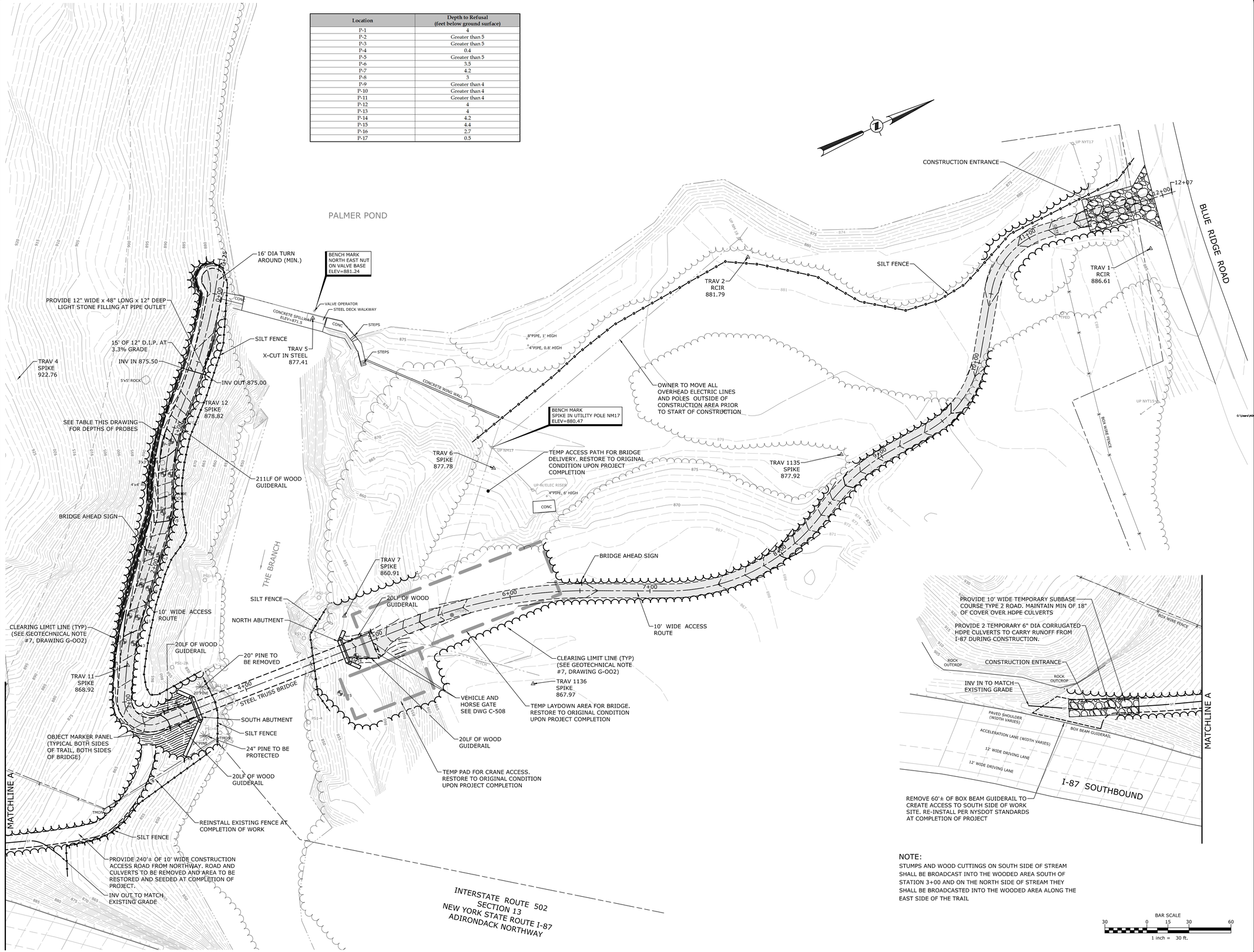
PART 3 EXECUTION (Not Used)

END OF SECTION

XREFS:

PROJECT NUMBER: 08.____

Location	Depth to Refusal (feet below ground surface)
P-1	4
P-2	Greater than 5
P-3	Greater than 5
P-4	0.4
P-5	Greater than 5
P-6	3.5
P-7	4.2
P-8	3
P-9	Greater than 4
P-10	Greater than 4
P-11	Greater than 4
P-12	4
P-13	4
P-14	4.2
P-15	4.4
P-16	2.7
P-17	0.5



NOTE:
STUMPS AND WOOD CUTTINGS ON SOUTH SIDE OF STREAM SHALL BE BROADCAST INTO THE WOODED AREA SOUTH OF STATION 3+00 AND ON THE NORTH SIDE OF STREAM THEY SHALL BE BROADCASTED INTO THE WOODED AREA ALONG THE EAST SIDE OF THE TRAIL

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

C.T. MALE ASSOCIATES
ENGINEERING, SURVEYING, ARCHITECTURE & LANDSCAPE ARCHITECTURE, D.P.C.

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CTM PROJECT NO: 14.4088
CTM DRAWING NO: 14-0405

WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

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CONSTRUCTION

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LOCATION:
VANDER WHACKER MT. FOREST
BLUE RIDGE ROAD
TOWN OF NORTH HUDSON, ESSEX CO., NY

CLIENT:
NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION

BID DOCUMENT

MARK	DATE	DESCRIPTION
REV1	02/22/2016	BID DOCUMENT
BID	01/22/2016	BID DOCUMENT

PROJECT NUMBER:	44964 – C
DESIGNED BY:	NGK
DRAWN BY:	NGK
FIELD CHECK:	
APPROVED:	RCW

SHEET TITLE:
SITE PLAN

DRAWING NUMBER:
C-101

SHEET 3 OF 14

CAD DWG. FILE NAME: FILENAME AUTOMATIC
36x24 PLOT SHEET

CAD DWG. FILE NAME: FILENAME AUTOMATIC

SECTION 031100

CONCRETE FORMWORK

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Steel Concrete Reinforcement: Section 032100.

B. Cast-In-Place Concrete: Section 033000.

C. Earthwork: Section 31000.

1.02 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.03 REFERENCES

A. Except as shown or specified otherwise, the Work of this Section shall conform to the requirements of Specifications for Structural Concrete for Buildings ACI 301 of the American Concrete Institute (Current Edition).

1.04 DESIGN REQUIREMENTS

A. ACI 301, Section 2.1 – Formwork and formwork accessories, General:
   1. Add the following to 2.1.1 Description:

      The formwork shall be designed for loads, lateral pressure, and allowable stresses outlined in Chapter 2 - Design of "Guide to Formwork for Concrete" (ACI 347-01).

1.05 SUBMITTALS

A. Product Data: Manufacturer's catalog sheets, specifications, and installation/application instructions for the following:
   1. Form systems and ties.
   2. Colorized Form Liner System: Submit catalogue cuts, manufacturer's literature and technical data for the simulated stone mold pattern, form liner, release agent, concrete patching material and color charts for staining of hardened concrete.

1.06 QUALITY ASSURANCE

A. Construct forms using facing materials required to provide specified finishes.

B. Construct a 4’-0” long mockup of the new concrete wall extension for review and approval of the formliner finish and the concrete stain. Allow four weeks for review and approval of the mockup by the Director’s Representative. Address any comments from the Director’s Representative on the markup for incorporation in to the construction of the wall extension at no additional cost to the project. Do not construct the wall extension until the mockup has been approved by the Director’s Representative

C. Colorized Form Liner System shall be installed by contractor having at least three (3) years of experience staining architectural concrete.

PART 2 PRODUCTS

2.01 MATERIALS

A. Conform to ACI 301.

B. Custom Rock Form Liner, Yellowstone Pattern, with Cut-Lite, Multi-Lite, Hi-Lite or Duraform liner material. Stain shall be done with three (3) individual colors, blended to closely represent stone nearby with water based H&C Concrete Stain by Sherwin Williams.

PART 3 EXECUTION

3.01 PREPARATION OF FORM SURFACES

A. Apply form-coating material in accordance with manufacturer’s instructions.

3.02 INSTALLATION

A. Provide three-quarter (3/4) inch chamfer on all exposed corners of concrete.

B. Shores and Supports:

1. Concrete members subject to additional loads during construction shall be shored in such a manner as will protect the member from damage by the loads.
2. Do not remove shores until the member supported has acquired sufficient strength to safely support its weight and any weight imposed thereon.

3.03 FINISHING FORMED SURFACES

A. Finish Schedule: Refer to the Structural Drawings for locations of form lined and stained finish and rough-formed finish.

B. All exposed abutment and wing wall concrete surfaces to be formed to a simulated natural stone, random, pattern, three-color finish with color staining application of the hardened concrete no sooner than 30 days after concrete placement.

C. All non-exposed concrete surfaces to be formed to a rough form surface.

3.04 REMOVAL OF FORMS

A. ACI 301, Section 2.3.2 - Removal of Forms:

1. Add the following paragraphs:

2.3.2.7 All formwork shall be removed after the concrete has sufficiently hardened, except in inaccessible spaces where approved.

2.3.2.8 After the ends or end fasteners of form ties have been removed, the embedded portion of the ties shall terminate not less than 3/4 inch from the formed surfaces of concrete.

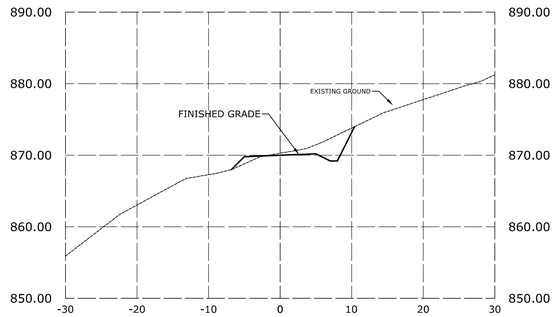
3.05 RE-USE OF FORMS

A. Split, frayed, delaminated or otherwise damaged form facing material shall not be used.

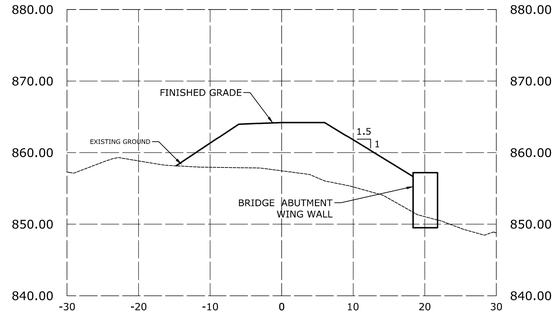
END OF SECTION

XREFS:

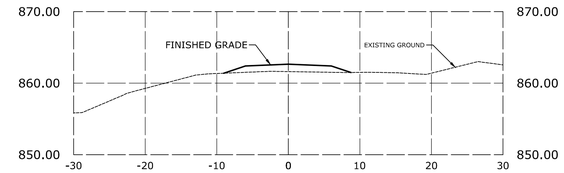
PROJECT NUMBER: 08.____



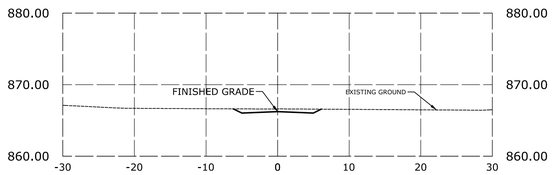
1 C-103 **TRAIL SECTION 2+50**
SCALE: HORZ. 1"=10'
VERT. 1"=10'
CROSS REFERENCE: NONE



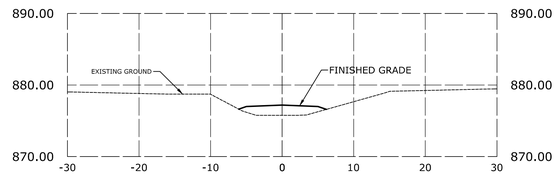
2 C-103 **TRAIL SECTION 3+50**
SCALE: HORZ. 1"=10'
VERT. 1"=10'
CROSS REFERENCE: NONE



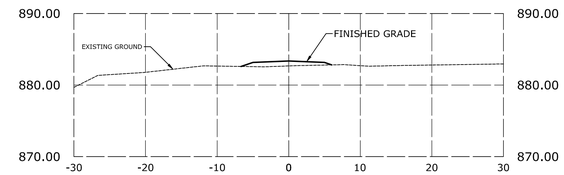
3 C-103 **TRAIL SECTION 5+00**
SCALE: HORZ. 1"=10'
VERT. 1"=10'
CROSS REFERENCE: NONE



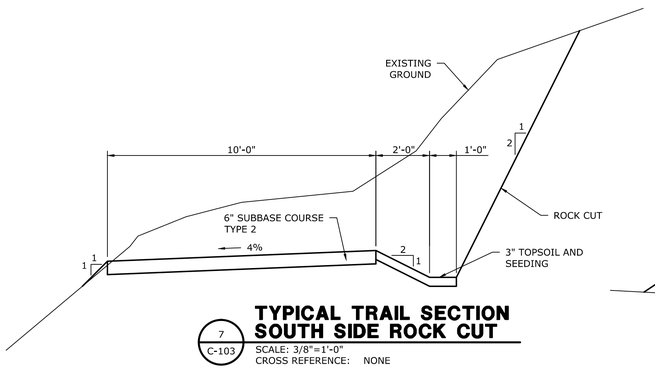
4 C-103 **TRAIL SECTION 7+00**
SCALE: HORZ. 1"=10'
VERT. 1"=10'
CROSS REFERENCE: NONE



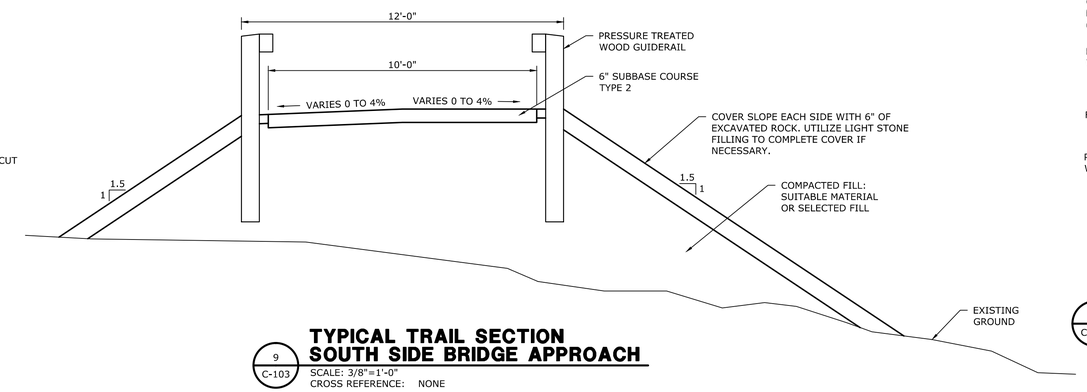
5 C-103 **TRAIL SECTION 9+00**
SCALE: HORZ. 1"=10'
VERT. 1"=10'
CROSS REFERENCE: NONE



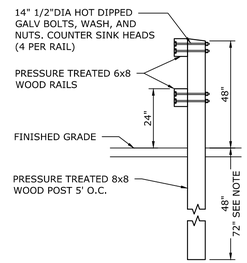
6 C-103 **TRAIL SECTION 11+00**
SCALE: HORZ. 1"=10'
VERT. 1"=10'
CROSS REFERENCE: NONE



7 C-103 **TYPICAL TRAIL SECTION SOUTH SIDE ROCK CUT**
SCALE: 3/8"=1'-0"
CROSS REFERENCE: NONE

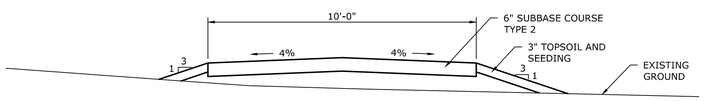


9 C-103 **TYPICAL TRAIL SECTION SOUTH SIDE BRIDGE APPROACH**
SCALE: 3/8"=1'-0"
CROSS REFERENCE: NONE

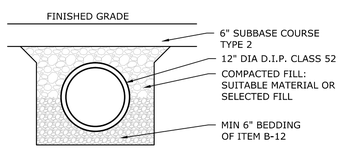


NOTE:
POST EMBEDMENT DEPTH SHALL BE 48" ON NORTH
SIDE OF STREAM AND 72" ON SOUTH SIDE OF STREAM.

10 C-103 **WOOD GUIDE RAIL DETAIL**
SCALE: NONE
CROSS REFERENCE: NONE



8 C-103 **TYPICAL TRAIL SECTION NORTH SIDE**
SCALE: 3/8"=1'-0"
CROSS REFERENCE: NONE



11 C-103 **DRAINAGE PIPE DETAIL**
SCALE: NONE
CROSS REFERENCE: NONE

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

C.T. MALE ASSOCIATES
ENGINEERING, SURVEYING, ARCHITECTURE & LANDSCAPE ARCHITECTURE, D.P.C.

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CTM PROJECT NO: 14.4088
CTM DRAWING NO: 14-0405

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TITLE:
PROVIDE PALMER POND
ADMINISTRATIVE USE
BRIDGE AND TRAIL

LOCATION:
VANDER WHACKER MT. FOREST
BLUE RIDGE ROAD
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CLIENT:
NEW YORK STATE DEPT. OF
ENVIRONMENTAL CONSERVATION

BID DOCUMENT

MARK	DATE	DESCRIPTION
REV1	02/22/2016	BID DOCUMENT
BID	01/22/2016	BID DOCUMENT

PROJECT NUMBER:	44964 – C
DESIGNED BY:	NGK
DRAWN BY:	NGK
FIELD CHECK:	
APPROVED:	RCW

SHEET TITLE:
TRAIL SECTIONS
AND DETAILS

DRAWING NUMBER:
C-103

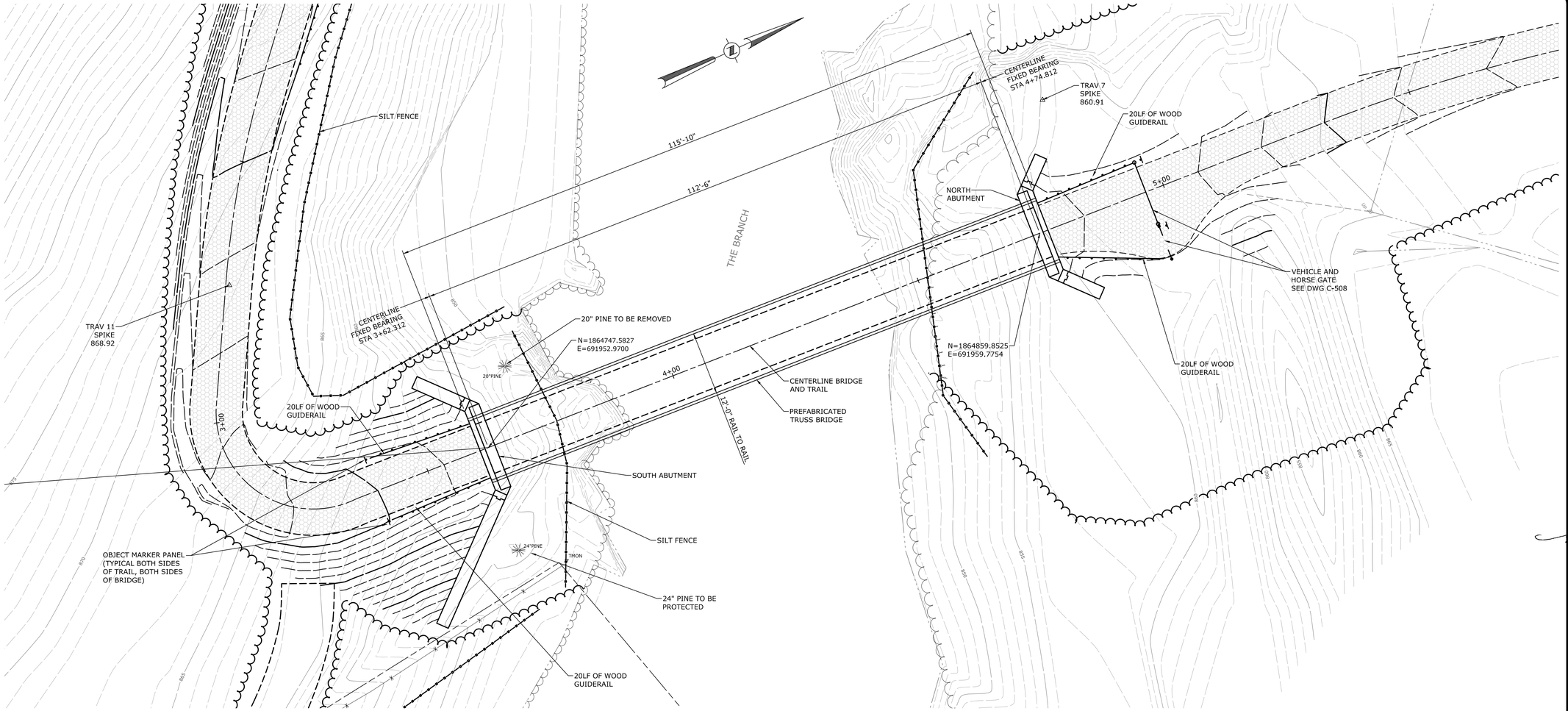
SHEET 5 OF 14

CAD DWG. FILE NAME: FILENAME AUTOMATIC

CAD DWG. FILE NAME: FILENAME AUTOMATIC
36x24 PLOT SHEET

XREFS:

PROJECT NUMBER: 08.____



BASIS OF DESIGN NOTES:

1. DESIGN CODE: NYSDOT "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" WITH ALL PROVISIONS IN EFFECT AS OF SEPTEMBER 2013. (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF SUBSTRUCTURE CONCRETE
2. BRIDGE DESIGNED IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 6TH EDITION, WITH 2013 INTERIM REVISIONS.
3. LIVE LOAD H-10 WITH A PEDESTRIAN LOADING OF 90PSF.

SUBSTRUCTURE NOTES:

1. SELECTED FILL SHAL BE PLACED AND COMPACTED AS INDICATED IN THE GEOTECHNICAL NOTES.
2. THE CONTRACTOR, AS APPROVED BY DIRECTORS REPRESENTATIVE, MAY INTRODUCE CONSTRUCTION JOINTS IN THE ABUTMENTS AT LOCATIONS NOT SHOWN ON THE PLANS.

SUPERSTRUCTURE NOTES:

1. ALL BRIDGE STEEL SHALL BE FABRICATED FROM ROLLED BEAM OR WIDE FLANGE SHAMPES DESIGNATED ASTM A588 GRADE 50. SECONDARY MEMBERS MAY BE TUBULAR SHAPES MEETING THE ASTM ASTM A847 (50 KSI) DESIGNATION.
2. BRIDGE FINISH SHALL BE WEATHERING STEEL WITH SURFACE PREPARED TO MEET SSPC-SP7.
3. THE DECK SHALL BE IPE WOOD AND THE STRUCTRAL DESIGN SHALL BE THE RESPONSIBILITY OF THE BRIDGE MANUFACTURE. A WEARING COURSE OF 2X12 PRESSURE TREATED WOOD, PLACED LONGITUDINALLY ALONG THE BRIDGE WITH 3/4 INCH SPACING, SHALL BE PLACED OVER THE BRIDGE DECKING.

STREAM PROTECTION NOTES:

1. PREVENT STREAM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR THE STREAM. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO THE STREAM ANY 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.
2. ANY INSTREAM AND STREAM BANK RESTRICTION PERIODS IDENTIFIED IN THE NYSDEC PERMIT CONDITIONS SHALL BE ADHERED TO.

SIGNAGE NOTES:

1. INSTALL (4) TYPE OM2-2V ALL YELLOW RETROREFLECTIVE OBJECT MARKERS (6X12). PLACE 1 AT EACH CORNER OF THE BRIDGE AS INDICATED ON THE PLAN. MOUNT SOUTH SIDE MARKERS ON THE GUIDE RAIL POSTS AT 48" HIGH TO TOP OF MARKER. MOUNT NORTH SIDE MARKERS ON GATE POST AND LOCK POST AT 48" HIGH TO TOP OF MARKER.
2. INSTALL (2) BRIDGE AHEAD SIGNS. ONE ON BOTH NORTH AND SOUTH SIDES OF BRIDGE 150' OUT FROM BRIDGE ALONG TRAIL. SIGNS TO BE 12x12 ALUMINUM PANEL WITH YELLOW BACKGROUND AND BLACK LETTERS. MOUNT SIGNS ON 4x4 PT WOOD POSTS EMBEDDED 4 FT. TOP OF SIGN TO BE PLACED AT TOP OF POST.

BAR SCALE
10 0 5 10 20
1 inch = 10 ft.

NEW YORK STATE OF OPPORTUNITY. Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT:
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ENGINEERING, SURVEYING, ARCHITECTURE & LANDSCAPE ARCHITECTURE, D.P.C.

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LICENSED PROFESSIONAL ENGINEER RICHARD C. WALKEMEYER 57208 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE PALMER POND ADMINISTRATIVE USE BRIDGE AND TRAIL

LOCATION:
VANDER WHACKER MT. FOREST
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PROJECT NUMBER:	44964 – C
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DRAWN BY:	NGK
FIELD CHECK:	
APPROVED:	RCW

SHEET TITLE:
BRIDGE PLAN

DRAWING NUMBER:
C-502

SHEET 7 OF 14

CAD DWG. FILE NAME: FILENAME AUTOMATIC
36x24 PLOT SHEET

CAD DWG. FILE NAME: FILENAME AUTOMATIC

SECTION 312316

ROCK REMOVAL

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Cast-in-Place Concrete: Section 033000.

B. Earthwork: Section 310000.

1.02 REFERENCES

A. Comply with the applicable requirements of the Code of Federal Regulations Title 29 - Labor, Part 1926 Safety and Health Regulations for Construction (OSHA).

1.03 DEFINITIONS

A. Rock: Limestone, sandstone, shale, granite, and similar material in solid beds or masses in its original or stratified position which can be removed only by blasting operations, drilling, wedging, or use of pneumatic tools, and boulders with a volume greater than 1.0 cu yd. Concrete building foundations and concrete slabs, not indicated, with a volume greater than 1.0 cu yd shall be classified as rock.

1. Limestone, sandstone, shale, granite, and similar material in a broken or weathered condition which can be removed with an excavator or backhoe equipped with a bucket with ripping teeth or any other style bucket shall be classified as earth excavation.
2. Masonry building foundations, whether indicated or not, shall be classified as earth excavation.

B. Unauthorized Rock Removal:

1. The removal of any rock prior to performing the measurements/work required to determine quantities (Paragraph 3.01 B).
2. The removal of material below required elevation indicated on the Drawings or beyond lateral dimensions indicated or specified without specific written direction by the Director.

C. General Rock Removal: Estimated to be 250 cubic yards. Quantities of rock removal will be paid for as General Rock Removal when:

1. The width of rock removed, as per measurement limits, is greater than or equal to the total excavation depth required.
2. Boulders removed have a volume greater than 1.0 cu yd.

D. Any variance from the estimated quantity will be negotiated by a Field Order or Change Order to the Contract.

1.04 SUBMITTALS

A. Rock Removal Procedure: Submit a detailed outline of intended rock removal procedure for the Director's information. This submittal will not relieve the Contractor of responsibility for the successful performance of method used.
   1. Where blasting is permitted, show drill hole pattern, method of blasting, explosive types, and amount of explosive load.

B. Quality Control Submittals:
   1. Certificates: Competency affidavit required under Quality Assurance Article.
   2. Blasters Qualifications Data: Submit the following for each blaster:
      a. Name, and employer's name, business address and telephone number.
      b. Names and addresses of the required number of similar projects which meet the experience criteria.

C. Measurement data for quantities of rock removal.

1.05 QUALITY ASSURANCE

A. Blasters' Qualifications: The persons performing the blasting operations shall be personally experienced in the handling and use of explosives, shall furnish satisfactory evidence of competency in performing in a safe manner the type of blasting required, and shall have performed blasting operations on 5 similar projects.

B. Regulatory Requirements: Obtain the proper Permit to Blast from authorities having jurisdiction before explosives are bought to the site.

C. Certifications: Affidavit, for each blaster, certifying that blaster is competent in performing the type of blasting required.

D. Pre-Rock Removal Conference: Before the rock removal work is scheduled to commence, a conference will be called by the Director's Representative at the site for the purpose of reviewing the Contract Documents and discussing requirements for the Work. The conference shall be attended by the Contractor's Representative and the person supervising the rock removal operations.

1.06 PROJECT CONDITIONS

A. Blasting:
   1. Do not perform blasting operations within 10 feet of existing buildings or structures, except as otherwise indicated.
   2. Do not perform blasting after bridge abutment construction.
   3. Limit peak particle velocity from blasts to a maximum of 1 inch per second at new bridge abutments or Palmer Pond Dam.
   4. When blasting operations will interfere with the work of related contracts (if any), schedule blasts during break and lunch periods or other non-work hours.

5. Keep proper daily records, including drilling logs.

PART 2 PRODUCTS

2.01 MATERIALS

A. Backfill Materials and Other Related Earthwork: As specified in Section 310000.

2.02 EQUIPMENT

A. Furnish one seismograph, with manufacturer's operating instructions, to measure particle velocity during blasting operations. The seismograph shall be capable of making a permanent record of blasting operations. The seismograph shall remain the property of the Contractor.

1. Deliver permanent records of blasting operations to the Director's Representative. Records will become the property of the State.

PART 3 EXECUTION

3.01 EXAMINATION, VERIFICATION & MEASUREMENT

A. Examination of Existing Property and Construction: Prior to starting rock removal Work, thoroughly examine the existing property and construction at the site and record, with notes and drawings or other documentation, existing defects and deterioration. Make this information available to the Director's Representative upon request.

B. Prior to removing material classified as rock, excavate test pits down to rock for the purpose of verifying the presence of sound rock and determining top of rock elevations.

1. Verification of Sound Rock: Demonstrate to the Director’s Representative that materials to be classified as rock cannot be removed utilizing a backhoe or excavator equipped with any form of bucket, including a bucket equipped with ripping teeth.
2. Required Measurements: Take elevations and measurements as required for the purpose of determining the quantities of rock removal. Record all measurement data and submit a copy of the data to the Director's Representative. Backfill test pits prior to rock removal as directed. Unless otherwise indicated or directed, excavate test pits as follows:
   a. For Bridge Abutments: Three (3) pits for each abutment or one pit for each 1000 sq ft, whichever is greater.
   b. For Paved Areas or Areas with Gravel Surface Courses: 3 pits for each 2500 sq ft.
   c. For Utility Lines: One pit for each 100 lin ft.

3.02 SITE PREPARATION

A. Schedule a site meeting with the Director's Representative and NYS DEC to review the rock removal procedures in detail.

B. If required, have seismographs in place and operational as well as all safety equipment and/or fencing.

3.03 ROCK REMOVAL

A. Remove rock as required by the Drawings and as necessary for the installation of the Work. Make sufficient clearance, within the limits specified, for the proper execution of the Work.

B. Volume Determination: Top of Rock Elevations established prior to the performance of any rock removal (Section 3.01 B) will be used to determine the depth of rock removed. Measurements for the base and width of the rock excavation shall be taken of the actual rock cut, as required for the Work, or to the specified measurement limits, whichever is smaller. Unless otherwise directed in writing, measurement limits for this work shall be as follows:

1. Cast-In-Place Concrete:
   a. Vertical Limit: Bottom of rock cut for cast-in-place concrete bearing on rock shall be the bottom of concrete elevation indicated on the Drawings.
   b. Horizontal Limit: Limit measurement between vertical side surfaces at bottom of rock cut to the following:

Actual Depth of Rock Cut	Distance Beyond Edge of Concrete in Each Direction
Under 3 Feet	18 Inches
3 to 15 Feet	24 Inches
Over 15 Feet	30 Inches

2. Pipe:
   a. Vertical Limit: Bottom of rock cut for pipe in trench shall be 6 inches below the required pipe invert elevation, with depth measured from the mean surface of the rock.
   b. Horizontal Limit: Limit measurement between vertical side surfaces at bottom of rock cut to the following:

Actual Depth of Rock Cut	Trench Width
Under 10 Feet	24 Inches plus Pipe OD
10 to 15 Feet	36 Inches plus Pipe OD
Over 15 Feet	48 Inches plus Pipe OD

3.04 FIELD QUALITY CONTROL

A. Provide the Director’s Representative with the recorded top of rock elevations. Prior to the performance of any rock removal operations obtain, in writing, that the Director’s Representative as reviewed the information and is in agreement with the measurements taken.

B. Notify the Director's Representative at least 3 work days in advance of all phases of blasting operations.

C. Allow time for visual inspection of bottom of rock cut required for the Work.

3.05 DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS.

A. Transport excess and unsuitable rock materials to spoil areas on north side of river in an area of the project site designated by the Director's Representative, and dispose of such materials as directed.

3.06 ADJUSTING

A. Unauthorized Rock Removal:
   1. Horizontal Direction: Backfill and compact unauthorized rock removal in the horizontal direction as specified for authorized excavation of the same classification, unless otherwise directed.
   2. Vertical Direction: Immediately report unauthorized rock removal in the vertical direction to the Director's Representative. Correct unauthorized rock removal in the vertical direction in accordance with directions of the Director.

3.07 CLEANING

A. Where footings and walls will rest entirely on rock, clean rock surfaces free of soil and loose rock.

END OF SECTION

SECTION 323129

WOOD FENCES AND GATES

PART 1 GENERAL

1.01 REFERENCES

A. Standards: Comply with the following unless otherwise specified or indicated on the Drawings:
   1. Lumber: American Softwood Lumber Standard PS 20; U.S. Department of Commerce.

B. Preservative Treatment: American Wood Preserver's Bureau (AWPB), by the American Wood Preservers Institute (AWPI).

1.02 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.

1.03 SUBMITTALS

A. Shop Drawings: Show application to project. Machine duplicated copies of Contract Drawings will not be accepted.

B. Quality Control Submittals:
   1. Pressure Treatment Certificates: Certification by treating plant stating chemicals and process used, net amount of salts retained, and conformance with applicable standards.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Keep materials dry during delivery. Store materials 6 inches minimum above ground surface. Protect against exposure to weather and contact with damp or wet surfaces. Stack lumber and provide air circulation between stacks.

PART 2 PRODUCTS

2.01 MATERIALS

A. Lumber; General: Furnish seasoned dimension lumber dressed to nominal sizes indicated with 19 percent maximum moisture content at time of dressing, marked "S-DRY". Comply with dry size requirements of PS 20.
   1. Dress: Surfaced 4 sides (S4S) unless otherwise indicated.

B. Lumber; 2 inches through 4 inches thick, less than 6 inches wide: Furnish Construction Grade Douglas Fir.

C. Board Lumber; less than 2 inches thick: Southern Pine No. 2 (SPIB); or Douglas Fir No. 3 Common (WWPA), or Construction (WCLB).

D. Timber; 5 inches and thicker: Furnish Select Structural grade Douglas Fir (WCLP or WWPA); or No. 1 Dense SR grade Southern Pine (SPIB).

E. Steel Brackets: ASTM A 36 galvanized ASTM A 123.

F. Fasteners: Galvanized, furnish type and size required.
   1. Nails and Staples: FS FF-N-105.
   2. Wood Screws: FS FF-S-111.
   3. Bolts and Studs: FS FF-B-575.
   4. Nuts: FS FF-N-836.
   5. Washers: FS FF-W-92.

2.02 PRESERVATIVE TREATMENT

A. Pressure treat lumber in accordance with applicable American Wood Preserver's Association (AWPA) Requirements using MCA Preservative, Standard U1, Use Category UC4B.

B. Complete fabrication of items to be treated to the greatest extent possible prior to treatment. Where items must be cut after treatment, coat cut surfaces with heavy brush coat of same chemical used for treatment.

C. Inspect wood after treating and drying. Discard warped or twisted items.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install wood members plumb, level true and straight, and free of distortion. Conform to all details shown on the drawing.

END OF SECTION

SECTION 323400

FABRICATED BRIDGES

PART 1 GENERAL

1.01. SCOPE

A. The work in this section includes the furnishing and complete installation of a pre-engineered, pre-fabricated steel truss H section bridge in accordance with the Contract Specifications and Drawings.

1.02. RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.03. RELATED WORK

A. Concrete Formwork: Section 031100.

B. Concrete Reinforcement: Section 032100.

C. Cast-In-Place Concrete: Section 033000.

D. Earthwork: Section 310000.

E. Site Clearing: Section 311000.

1.04. REFERENCE STANDARDS

A. General: Reference to Standard Specifications, manuals or codes of any technical society, organization or association, or to the laws or Regulations of any Governmental Authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, laws or regulations in effect at the time. Where specifications and reference documents conflict, the more stringent requirement shall apply.

B. Reference Codes and Standards:
1. American Institute of Steel Construction (AISC), Steel Construction Manual, Thirteenth Edition.
2. ANSI/AF&PA National Design Specification (NDS) for Wood Construction 2005 Edition.
3. American Welding Society (AWS) D1.5 Bridge Welding Code (use AWS D1.1 for welding not covered in AWS D1.5).
4. Research Council on Structural Connections (RCSC) Specifications for Structural Joint Using A325 or A490 Bolts (2004).
5. AASHTO/NSBA S2.1 Steel Bridge Fabrication Guide Specifications, 2nd Edition.

6. AASHTO LRFD Bridge Design Specifications for Highway Bridges, 6th Edition and AASHTO LRFD Bridge Construction Specifications 3rd Edition (2010).
7. Pre-Fabricated Steel Bridge shall conform to all applicable requirements of the NYS DOT "Standard Specifications for Highway Bridges" with all provisions in effect as of September 2013.

1.05. DESIGN REQUIREMENTS

A. Licensure: The engineering design of the Bridge shall be performed by or under the direct supervision of a Licensed Professional Engineer in the State of New York. The design shall be completed in accordance with recognized engineering principles and design practices and with a standard of care commensurate with the Manufacturer's role in the project.

B. Design criteria (eg. loadings, span length, clear width between face of rails, etc.) shall be as indicated in the Contract Drawings.

C. Design Specification: The Bridge shall be designed in accordance with AASHTO LRFD Bridge Design Specifications, 6th Edition, with 2013 interim revisions and in conformance with the current NYS Department of Transportation Standard Specifications for Highway Bridges with all provisions in effect as of September 2013. The live load shall be specified as: H-10, with a pedestrian loading of 90 psf.

D. Analysis: The structural analysis for the Bridge shall include, at a minimum, a two dimensional analysis for gravity dead loads and moving live (truck) loads on transverse and longitudinal members, as applicable. Location of axle loads, land loads, wheel loads; and the distribution of wheel loads shall be applied as such to produce the maximum stress (or applied force) in the member or members under consideration.

Due to their configuration, a U-frame analysis is required for half-through trusses, to confirm the top chord's stability by computing the relative stiffness of the Bridge's cross sectional members to determine the resistance of the top chord members to buckling. The analysis shall follow E.C. Holt, Jr. and R.M. Barnoff's research performed for the Column Research Council, (1950-1957).

E. Bridge Information Model (BriM): The Manufacturer shall utilize three-dimensional CAD Software with integrated model-data-CNC file transfer of the Bridge components and assemblies to prepare Engineering and Shop Drawings. This is to promote efficiency during plan development and to improve quality of the delivered Bridge order.

F. Load Rating: A load rating of the Bridge's superstructure shall be supplied to the Director's Representative upon written request, after the bridge's fabrication is complete.

G. Loads & Load Combinations: All applicable dead and live loads shall be applied and combined as specified in the Contract Specification. Longitudinal forces from thermal expansion and contraction, and vehicles; along with lateral forces from wind, flood or seismic events shall be computed and combined as applicable and in accordance with the Contract Specification.

H. Gusset Plates: Gusset plates shall be adequately designed to transfer member forces in accordance with governing sections of the Contract Specifications and FHWA Publication Number IF-09-014. All gusset plates shall have 1" radiused corners, except for the lower corners aligned toward the mid-line of the bridge. They shall be square to aid their orientation during assembly.

I. Camber & Deflection: Calculation of the Bridge's dead and live load deflection is required. Live load deflection of the primary members should be limited to the span-to-deflection ratio of L/600 unless otherwise specified. Dead load deflection shall be accommodated by forming camber into the unloaded geometry of the members. Profile grade curvature shall also be taken into account when determining the fabricated (or induced) camber of the members. No camber adjustment is required for spans of less than 50 ft., except that they be fabricated with their natural mill camber as "up".

J. Wood Decking: The Bridge's wood decking shall be as designed and provided by the prefabricated bridge manufacturer. Decking shall consist of an industry standard, high quality, durable hardwood.

K. Railings: Railings including specified strengthening using added box beam rails at each truss, shall be designed to provide a continuous, snag-free alignment along the bridge's edge of roadway. Additionally, they shall transition smoothly to a ground mounted railing system eventually terminating as directed or planned by the Director's Representative unless otherwise stipulated in the contract Documents. The railing system shall be designed to meet the dimensional requirements of the Contract specification and to resist vehicular impact loads in accordance with the Design Specification (10 kip for Std. Spec. or TL1 for LRFD), unless otherwise stipulated. Bicycle and pedestrian rails shall be designed for the dimensional load requirements of the Contract Specification. The railing should be galvanized.

L. Connection Method: Bolted steel connections of two section truss components and gusset plates provide a greater level of internal redundancy than welded connections. These connections shall be utilized within the design and fabrication process. Exceptions to their use should be justified to the Director's Representative and submitted in writing for approval, prior to commencing design.

1.06. SUBMITTALS

Submit to the Director's Representative the following:

A. Submittal Package:

1. Prior to bridge fabrication, Engineering Drawings and Calculations, sealed by a Registered Professional Director's Representative in the State of New York, will be submitted to the Director's Representative for Approval within 5 weeks of Notice to Proceed, contingent upon receiving all scope information at the time of Notice to Proceed; and after receiving answers to requests for information (RFI).
2. Unless otherwise requested, an electronic version of the Shop Drawings will be submitted in portable document format (.PDF) via email to the Director's Representative. After final approval by the Director's Representative, the Contractor shall provide the Director's Representative two 24" x 36" paper copies of the Engineering Drawings. 5 sets of the As-Fabricated Drawings (11" x 17") shall be transmitted to the Director's Representative at the time of Bridge Delivery.
3. Two copies of design calculations shall be submitted concurrently with the shop drawings for review by the Director's Representative. The calculations shall include, but not be limited to, the following:
   a. Analysis and code check with appropriate member connectivity and end conditions. A diagram showing joint coordinates and member indices shall be included.
   b. Half-thru truss or u-frame stiffness checks (when design does not include top lateral bracing).
   c. Member forces and stress checks.
   d. Deflection checks.
   e. End post and floorbeam design checks.
   f. Wind bracing design.
   g. Welded connection design.
   h. Bolted field splice design.
   i. Bearing and anchor bolt design.
   j. Railing system design.
   k. Vibration design check including fundamental frequency calculations.
4. The Director's Representative's comments will be indicated on the returned copies. Should the proposed design not be approved, the reasons will be indicated with the return of the material. The Contractor shall then submit a revised design and drawings for approval, subject to the same terms as the first submission.

B. Product Data: Mill reports, certificates and test results shall be submitted for approval prior to fabrication.

C. Quality Control Submittal: A detailed description of the method of bridge installation shall be submitted at least 30 days prior to delivery of the bridge.

1.07. DELIVERY, STORAGE AND ERECTION

A. Contractor's Responsibility: The Contractor shall procure all necessary information about the site and soil conditions. The engineering design and construction of the Bridge abutments, piers and/or footings shall be the responsibility of the Contractor. Pertinent information related to the design and performance of the bridge superstructure shall be made available to the Bridge Manufacturer by the Contractor. The Contractor shall install the anchor bolts in accordance with the Bridge Manufacturer's engineering Drawings and recommendations. All roadway approach work shall be the responsibility of the Contractor. All lightning protection shall be the responsibility of the Contractor.

B. Delivery: Delivery of the Bridge will be within a 6 to 8 week period after approval of Engineering Drawings. Bearing plates, anchor bolts and expansion joints can be furnished by the bridge manufacturer in advance of the Bridge for incorporation into the abutment construction, upon receipt of a timely request by the Contractor. Delivery of the bridge shall be coordinated between the Manufacturer or their Supplier and the Contractor.

C. Erection: The Manufacturer will advise the Contractor of the attachment points and other necessary information required to install the bridge. The method and sequence of erection shall be the responsibility of the Contractor. Unloading, stabilization, splicing, bolting, and proper rigging and lifting are the responsibility of the Contractor.

D. The Contractor, through the Manufacturer and/or Supplier, shall provide a qualified Technical Assistant at the jobsite while the primary structure components are installed. The Contractor shall notify the Manufacturer or their representative at least two weeks in advance of the planned installation. The Technical Assistant shall have at least five (5) years experience in the installation of similar bridges.

1.08. QUALITY ASSURANCE

A. Pre-Fabricated Bridge Manufacturer's Qualifications:

1. AISC Certification: the Manufacturer shall have maintained certification by the American Institute of Steel Construction (AISC) (Major Steel Bridges), including Fracture Critical and Sophisticated Paint System endorsements, for a period of at least five (5) continuous years immediately preceding the bid opening.
2. SSPC Qualifications: The Manufacturer shall employ painters trained and certified under the Structural Steel Paint Council, SSPC QP3 Standard Procedure for Evaluating Qualifications of Shop Painting Applicators and familiar with materials safety data sheets (MSDS), product data sheets, painting tools and equipment and quality procedure.
3. Experience: The Manufacturer shall have designed and manufactured at least ten (10) permanent premanufactured steel truss and rolled beam bridges of approximately the same size and configuration as the proposed Bridge during a period of not more than five (5) continuous

years immediately preceding the bid opening. The Manufacturer shall also have experience designing and manufacturing bridges with all-bolted component connections using Computer Numerically Controlled (CNC) drilling equipment and shop bolting operations.

B. Pre-Approved Manufacturers

1. The Director's Representative has pre-approved the following manufacturers as possessing the requisite qualifications to timely and properly design and manufacture the Bridge:

   a. ConTech
      9025 Centre Pointe Drive
      Suite 400
      West Chester, Ohio 45069

   b. Big R Bridge
      P.O. Box 1290
      Greeley, Colorado 80632

2. All other prospective manufacturers, not pre-approved by the Director's Representative, are required to submit a signed application with the following documentation supporting their ability to meet the above referenced qualification:

   a. Copy of current AISC certifications as provided above.
   b. Copy of Quality Assurance Programs.
   c. Splicing and erection procedures.
   d. Approved welding process procedures.
   e. The name and qualifications of the Manufacturer's representative designated to represent the manufacturer for all pre-bid activities.
   f. The name and qualifications of the Technical Assistant that will conduct on-site assistance during field installation of the Bridge until secure and stable.
   g. If any part of the Bridge is to be galvanized, a copy of the written warranty issued by the galvanizer that warrants against corrosion of the superstructure (other than bridge flooring) for a period of not less than 35 years.
   h. List ten (10) permanent bridges similar in size and configuration to the Bridge, which the applicant has manufactured in the preceding five (5) years, together with drawings, calculations, project details and contract information.
   i. Complete list of plant, equipment, employees and others to be used by the applicant to design and manufacture the Bridge including copies of all Professional Engineering licenses for designers and welding certificates for welders.

3. The Director's Representative will evaluate and verify the accuracy of the submittal and notify the prospective Manufacturer whether the prospective Manufacturer meets the requisite qualifications. If the Director's Representative determines that the requisite qualifications do not exist, the Manufacturer's bid shall not be eligible for consideration. The Owner's decision shall be final.

C. Shop Inspection: Each Bridge shall be inspected by a qualified shop inspector. For all welded assemblies the inspector shall be a Certified Weld Inspector that is qualified under the AWS QC-1 program. Each inspection shall include, as a minimum requirement, the following: review of shop Drawings, weld procedures, welder qualifications and weld testing reports, visual inspection of welds and verification of overall dimensions and geometry of the Bridge. Non-destructive testing of welds shall be performed both prior to and after galvanizing. All welds shall be visually inspected 100%. All welds shall be magnetic particle tested for a minimum length of 12". Welds over 12" long shall be magnetic particle tested at least 12" for every 10' of length. A report of these inspections shall be provided.

PART 2 PRODUCTS

2.01. GENERAL REQUIREMENTS

A. All materials for this work shall meet the requirements of the New York State Steel Construction Manual (SCM) NYSDOT Standard Specifications Construction and Materials, and modifications made herein.

B. Manufacturers offering prefabricated superstructures which meet the basic geometric requirements indicated on the Contract Plans (span, width and camber) must, as a minimum, be AISC certified for major steel bridge structures. Qualified pedestrian bridge superstructure suppliers must have at least five (5) years experience fabricating this type of structure.

C. Prefabricated bridge superstructure materials shall conform to the requirements listed in the following New York State Department of Transportation Standard Specifications:

Paint	§708-01
Paint (on galvanized surface)	§708-06
Galvanizing	§719-01
Structural Steel	§715-01
High Strength Bolts, Nuts and Washers	§715-14
High Strength Bolts, Nuts and Washers	ASTM A325M
Posts for Fencing	ASTM A500, Grade B
Structural Steel Shapes: thickness (minimum) 8 mm	ASTM A 588 M or as specified in Contract Plans
Structural Steel Plate	ASTM A 709 Grade 345W
Structural Tubing: thickness (minimum) 6mm	ASTM A847 M (weathering)
Weld Material for welding tubes:	SCM and ANSI/AWS D1.1
Weld Material for plate steel	SCM and ANSI/AWS D1.5

	Bearings §716
Anchor Bolts	§723-60

2.02. MATERIALS

A. Weathering Steel: All bridge steel specified as 'weathering' shall be fabricated from rolled beam or wide flange shapes designated ASTM A588 Grade 50. Secondary weathering members may be tubular shapes carrying the ASTM A847 (50 ksi) designation; all domestically produced and provided by an AISC recognized supplier. All members shall be surface cleaned and prepared prior to delivery in accordance with SSPC-SP7.

B. Structural Fasteners: All bolted connections shall utilize ASTM A-325 High Strength bolts. All bolts for weathering steel components shall be ASTM A 325 type 3. Galvanized bolts shall be A325 type 1, hot dip galvanized in accordance with ASTM A-153 specifications.

C. Anchor Bolts: The anchor bolts supplied with all bridge systems shall be ASTM A449 Full Thread Studs Hot Dip Galvanized as per ASTM A153. Each anchor bolt shall be provided with one A563 Galvanized Heavy Hex Nut and one F436 Galvanized Flat Washer.

D. Bearings: This item consists of furnishing and installing bridge bearings in accordance with the Contract Documents, this specification and the manufacturer's recommendations. If none is previously determined, the following specifications shall apply and be included into the project:

1. Pre-formed fabric bearing pads shall be made from steel plates on fabric pads and sliding (PTFE) plates as manufactured by Con-Serv Inc. of Georgetown, SC. The fabric pads shall be composed of multiple layers of 8 oz. cotton duck impregnated and bound with high-quality natural rubber or equivalent. Bearing pads shall be designed to produce the specified thickness, after compression and vulcanizing, sufficient to withstand compression loads in accordance with the specified design method's governing section for bearing design.

E. Expansion Joints: This item consists of furnishing and installing strip or compression seal expansion joints in accordance with the contract Documents, this specification, and the manufacturer's recommendations. If none is previously determined, the following suggested specifications are offered for inclusion into the project:

1. Armored strip seal or compression seal expansion joints shall be flexible, non-reinforced and extruded from neoprene (polycholoroprene) compounds which satisfy the ASTM standard specification D3542 for Preformed Polycholoroprene Elastic Joint Seals for Bridges. Steel extrusions for strip seals shall be ASTM 588 or A36 steel as per the manufacturer. Approved products include:

a. Strip Seals – Wabo®StripSeal by Watson Bowman Acme Corp. or Steelflex® Strip Seal Expansion Joint Systems by D.S. Brown Company.

b. Compression Seals – Wabo®CompressionSeal Bridge Series by Watson Bowman Acme Corp. or Delastic® Preformed Compression Seals by D.S. Brown Company.

2. Armorless asphalt expansion joints shall be manufactured or sold as a one piece monolithic asphaltic plug joint capable of providing a flexible yet smooth bridging joint between superstructure and approach pavements. Approved products include:

a. Armorless Asphalt Joints - Wabo®Expandex by Watson Bowman Acme Corp. or Matrix™ 502 Asphaltic Expansion Joint by D.S. Brown Company.

F. Floor or Deck System: The flooring or deck system shall be provided as designated in the Contract Documents and as specified below:

1. The structural design and construction for the shop installed IPE wood decking shall be the responsibility of the bridge manufacturer.

2. A wearing course of 2x12 pressure treated wood, placed longitudinally along the bridge with three-quarter (3/4) inch spacing, shall be placed over the bridge decking.

2.03. GALVANIZED STEEL COMPONENTS

A. Where required fabricated components shall be hot dip galvanized after fabrication in compliance with ASTM A-123. Damage to hot dip galvanized coatings resulting from welding, handling, or other factors shall be repaired in accordance with ASTM Standard practice A-780. Bolts and fasteners shall be hot dip galvanized in accordance with ASTM specification A-153. The steel galvanizer shall be a member of the American Galvanizer's Association and shall provide the Bridge Owner a written limited warranty against corrosion of the applicable bridge components (other than bridge flooring) for a period of not less than 35 years.

2.04. MATERIAL CERTIFICATION

A. Material Certification: The Manufacturer shall maintain a program to receive, inspect, record and trace materials used in the Bridge. Material Test Reports shall be used to prove domesticity, and document chemistry and physical test records. Certificates of conformance shall be used to document compliance with specifications. Traceability shall be met by heat and lot numbers records from the producing mill or supplier. This program shall be in evidence by the Manufacturer's AISC Certification and a written copy found in the Manufacturer's AISC Certification Manual

PART 3 EXECUTION

3.01. SHOP ASSEMBLY

A. Shop assembly shall conform to AASHTO Construction Specifications and AASHTO/NSBA S2.1 guide specifications. For bridges such as trusses, the Manufacturer shall shop assemble the entire span, to conform to the camber and blocking requirements shown in the Engineering Drawings in an unloaded, laydown process. If the span is too long for a complete shop assembly, the Manufacturer shall check-assemble a minimum of three adjacent shippable units of the bridge, in a sequential manner, to ensure that an accurate fit-up of assemblies are possible in the field. Complex framing members such as skewed floor beams shall also be check – assembled in the shop, to ensure geometric accuracy and fit-up has been achieved. Stringer beams, transverse bracing and accessory pieces are not required to be check-assembled to their primary members unless specified in the Contract Documents.

3.02. INSTALLATION

A. The bridge manufacturer shall provide all necessary plans and specifications for the installation of the bridge. The bridge shall be installed in accordance with the plans and specifications supplied by the bridge manufacturer.

B. The bridge manufacturer shall provide an on-site technical representative to guide and assist the Contractor during the bridge installation.

C. The bridge manufacturer shall coordinate with anchor bolt installation with the contractor to ensure that the anchor bolts for the bridge bearings are installed at the correct plan locations and elevations and advise of requirements for any associated grout placement for the bearings.

3.03. WARRANTY

A. The bridge manufacturer shall provide a warranty against defects in material and workmanship for a period of ten (10) years.

END OF SECTION

SECTION 344113

TRAFFIC SIGNS

PART 1 GENERAL

1.01 SUBMITTALS

A. Shop Drawings: Show shop drawings, not necessarily to scale, but sufficient enough in detail to show color, wording, lettering size and style, overall sign size, construction details and installation details for each type of sign.

PART 2 PRODUCTS

2.01 TRAFFIC SIGNS

A. Construction Materials: Comply with the applicable requirements of DOT Section 645.

B. Posts: 4x4 Wood Post.

PART 3 EXECUTION

3.01 INSTALLATION

A. Erect signs in their designated locations, as indicated and in accordance with the approved shop drawings and the applicable requirements of DOT Section 645.

B. Protect surfaces and finishes from abrasion and other damage during handling and installation.

C. Replace damaged or faulty signs.

END OF SECTION

NOTICE OF INTENT

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

NYR [ ][ ][ ][ ][ ][ ]
(for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-10-001

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR **MUST SIGN FORM**

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
NYS Dept of Environmental Conservation

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Thomas

Owner/Operator Contact Person First Name
Benjamin

Owner/Operator Mailing Address
232 Golf Course Road

City
Warrendburg

State
NY

Zip
12885 -

Phone (Owner/Operator)
518 - 623 - 1268

Fax (Owner/Operator)
- -

Email (Owner/Operator)
benjamin.thomas@dec.ny.gov

FED TAX ID
14 - 6013200 (not required for individuals)

Project Site Information

Project/Site Name

PALMER POND ADMINISTRATIVE USE BRIDGE AN

Street Address (NOT P.O. BOX)

3920 BLUE RIDGE ROAD

Side of Street

○ North ● South ○ East ○ West

City/Town/Village (THAT ISSUES BUILDING PERMIT)

NORTH HUDSON

State: NY

Zip: 12855 -

County: ESSEX

DEC Region: 5

Name of Nearest Cross Street

BLUE RIDGE ROAD

Distance to Nearest Cross Street (Feet)

475

Project In Relation to Cross Street

○ North ● South ○ East ○ West

Tax Map Numbers
Section-Block-Parcel

125.1-1-12.134

Tax Map Numbers

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/imsmaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting): 600970

Y Coordinates (Northing): 4867073

2. What is the nature of this construction project?

● New Construction

○ Redevelopment with increase in impervious area

○ Redevelopment with no increase in impervious area

3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use

- ● FOREST
- ○ PASTURE/OPEN LAND
- ○ CULTIVATED LAND
- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ○ INDUSTRIAL
- ○ COMMERCIAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ○ BIKE PATH/TRAIL
- ○ LINEAR UTILITY
- ○ PARKING LOT
- ○ OTHER

Post-Development Future Land Use

- ○ SINGLE FAMILY HOME
- ○ SINGLE FAMILY SUBDIVISION — Number of Lots
- ○ TOWN HOME RESIDENTIAL
- ○ MULTIFAMILY RESIDENTIAL
- ○ INSTITUTIONAL/SCHOOL
- ○ INDUSTRIAL
- ○ COMMERCIAL
- ○ MUNICIPAL
- ○ ROAD/HIGHWAY
- ○ RECREATIONAL/SPORTS FIELD
- ● BIKE PATH/TRAIL
- ○ LINEAR UTILITY (water, sewer, gas, etc.)
- ○ PARKING LOT
- ○ CLEARING/GRADING ONLY
- ○ DEMOLITION, NO REDEVELOPMENT
- ○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
- ○ OTHER

***Note:** for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
.	0.9	0.	0.3

5. Do you plan to disturb more than 5 acres of soil at any one time? ○ **Yes** ○ **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	B	C	D
12 %	46 %	42 %	0 %

7. Is this a phased project? ○ **Yes** ○ **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date 05 / 01 / 16 – End Date 11 / 30 / 16

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

THE BRANCH RIVER

PALMER POND

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ○ Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ● Stream / Creek On Site
- ○ Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ● Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ○ Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ○ Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-10-001? ○ Yes ● No

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-10-001? ○ Yes ● No

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ● Yes ○ No
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ○ Yes ● No
If Yes, what is the acreage to be disturbed?

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ Yes ● No

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ○ Yes ● No ○ Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ● No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ Yes ● No

19. Is this property owned by a state authority, state agency, federal government or local government? ● Yes ○ No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ Yes ● No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ● Yes ○ No

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ○ Yes ● No
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ○ Yes ○ No

24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer
C.T. Male Associates

Contact Name (Last, Space, First)
Wakeman Richard

Mailing Address
50 Century Hill Drive

City
Latham

State Zip
NY 12110-

Phone
518-786-7400

Fax
518-786-7299

Email
r.wakeman@ctmale.com

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-10-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name
Richard

MI
C

Last Name
Wakeman

Signature

Date
01/23/2016

25. Has a construction sequence schedule for the planned management practices been prepared? ○ Yes ● No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ○ Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ● Silt Fence
- ● Stabilized Construction Entrance
- ○ Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ○ Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ○ Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ○ Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ○ Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

Other

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

○ **Preservation of Undisturbed Areas**

○ **Preservation of Buffers**

○ **Reduction of Clearing and Grading**

○ **Locating Development in Less Sensitive Areas**

○ **Roadway Reduction**

○ **Sidewalk Reduction**

○ **Driveway Reduction**

○ **Cul-de-sac Reduction**

○ **Building Footprint Reduction**

○ **Parking Reduction**

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

○ All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).

○ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

[ ][ ][ ].[ ][ ][ ] **acre-feet**

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing Area (acres)		Total Contributing Impervious Area (acres)
RR Techniques (Area Reduction)			
○ Conservation of Natural Areas (RR-1) ...	___.___	and/or	___.___
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)	___.___	and/or	___.___
○ Tree Planting/Tree Pit (RR-3)	___.___	and/or	___.___
○ Disconnection of Rooftop Runoff (RR-4) ..	___.___	and/or	___.___
RR Techniques (Volume Reduction)			
○ Vegetated Swale (RR-5)			___.___
○ Rain Garden (RR-6)			___.___
○ Stormwater Planter (RR-7)			___.___
○ Rain Barrel/Cistern (RR-8)			___.___
○ Porous Pavement (RR-9)			___.___
○ Green Roof (RR-10)			___.___
Standard SMPs with RRv Capacity			
○ Infiltration Trench (I-1)			___.___
○ Infiltration Basin (I-2)			___.___
○ Dry Well (I-3)			___.___
○ Underground Infiltration System (I-4)			___.___
○ Bioretention (F-5)			___.___
○ Dry Swale (O-1)			___.___
Standard SMPs			
○ Micropool Extended Detention (P-1)			___.___
○ Wet Pond (P-2)			___.___
○ Wet Extended Detention (P-3)			___.___
○ Multiple Pond System (P-4)			___.___
○ Pocket Pond (P-5)			___.___
○ Surface Sand Filter (F-1)			___.___
○ Underground Sand Filter (F-2)			___.___
○ Perimeter Sand Filter (F-3)			___.___
○ Organic Filter (F-4)			___.___
○ Shallow Wetland (W-1)			___.___
○ Extended Detention Wetland (W-2)			___.___
○ Pond/Wetland System (W-3)			___.___
○ Pocket Wetland (W-4)			___.___
○ Wet Swale (O-2)			___.___

Table 2 - Alternative SMPs
(DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area (acres)
○ Hydrodynamic	
○ Wet Vault	
○ Media Filter	
○ Other	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

Manufacturer

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

acre-feet

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ○ **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

acre-feet

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

○ **Yes** ○ **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a). [ ][ ][ ].[ ][ ][ ]

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ○ **Yes** ○ **No**

If Yes, go to question 36.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

[ ][ ][ ].[ ][ ][ ] **acre-feet**

CPv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

[ ][ ][ ].[ ][ ][ ] CFS

Post-development

[ ][ ][ ].[ ][ ][ ] CFS

Total Extreme Flood Control Criteria (Qf)

Pre-Development

[ ][ ][ ].[ ][ ][ ] CFS

Post-development

[ ][ ][ ].[ ][ ][ ] CFS

37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ○ **Yes** ○ **No**

If Yes, Identify the entity responsible for the long term Operation and Maintenance

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ○ Individual SPDES
- ○ SPDES Multi-Sector GP N Y R
- ○ Other
- ○ None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ Yes ● No
If Yes, Indicate Size of Impact. .

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ○ Yes ● No
(If No, skip question 43)

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? ○ Yes ○ No

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned. N Y R

3222234794

Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name

Benjamin

MI

C

Print Last Name

Thomas

Owner/Operator Signature

Benjamin C. Thomas

Date

02/23/2016