SENECA NATION OF INDIANS PERMIT APPLICATION
FOR CONSTRUCTION PROJECTS WITHIN WATERWAYS

PIN #: 5758.79
BIN # / CIN #: BIN 6012230, Various small culverts

Lead Agency: NYSDOT
Address: 100 Seneca St Buffalo NY 14203
Contact Person: Michael Jurkowski – Regional Environmental Contact
Telephone: 716-847-3430
Fax #: Email: michael.jurkowski@dot.ny.gov

Prime Contractor: TBD – Contract has not been awarded
Address:
Contract Person:
Telephone: Fax #:

Insurance: The Seneca Nation of Indians must be listed as an additional insured upon approval of application. Mail Certificate of Insurance to:

   Seneca Nation of Indians
   Director of Department of Transportation
   PO Box 231
   90 Ohi:yó’ Way
   Salamanca, NY 14779

PERMIT TYPE REQUESTED:

Permit required for all work activities within the top of the banks of a waterway.
Work within the water is limited to June 1st through August 31st.

1 - BIN 6012230 BRIDGE (Over 20’)
   $800.00

2 – 182+50 and 196+00 (6/7/22) CULVERT (Under 20’)
   $400.00

2,656-feet of gabion wall along USGS mapped portion of Allegany River – See attached justification.
   OTHER (i.e., Cleaning, Realignment, bank stabilization, etc.)
   $200.00 per linear feet
EXTENSIONS FOR WORK IN THE WATER MAY BE REQUESTED: TBD by Contractor – See attached justification.

The deadline for submitting for EXTENSIONS is two (2) weeks prior to the second Saturday in August. Fees for EXTENSIONS are refundable if work is completed by August 31st.

September 1st through September 8th

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September 1st through September 15th

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<tr>
<td>OTHER</td>
<td>$100.00 per 100 linear feet</td>
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Permit fees payable to the SENECA NATION OF INDIANS by check or money order to:

Seneca Nation of Indians
PO Box 231
90 Ohi:yo’ Way
Salamanca, NY 14779

ENVIRONMENT AFFECTED:

X WATER
X GRAVEL BARS
X TOPSOIL
X – 6.2 acres TREES / VEGETATION

* Attach an inventory of affected trees and vegetation

LOCATION OF PROJECT:

Old Route 17 from the intersection of Bunker Hill Road to approximately 1700 feet southwest of Breed Run Road in the Towns of Cold Spring, Red House and Salamanca in Cattaraugus County.

NAME OF AFFECTED WATERWAY:

UNT to Allegheny River (2-small culverts) and Allegheny River (BIN 6012230)

*As delineated on a USG Quadrangle Map

IS THIS PROJECT COMPLETELY WITHIN A RIGHT-OF-WAY

Attach all relevant documents, R.O.W. Agreements, Temporary Easements – See attached Project Plans

X Yes
No
DATES OF OPERATION:
Beginning: Spring 2023  Ending: 12/2024

NARRATIVE DESCRIPTION:
The proposed project consists of two parts: rehabilitating the roadway section with an unpaved wearing surface, and replacement of the bridge over the Allegheny River. Certain areas where the roadway is failing will need additional treatments to stabilize the roadway. These additional treatments include placing a gabion wall along approximately 3,600 feet of the existing roadway to provide stability along the roadway. Under existing conditions, water from the river undermines the material underneath the pavement, weakening it and causing the pavement to shift, fall apart, and in some cases cause concrete slabs to slide into the river. The gabion wall, complemented by several cross pipes, will increase the stability of the roadway. The proposed gabion wall will be placed approximately 10-feet from the existing edge of pavement and be installed to a depth of 3-6 feet. For much of the extent of the proposed wall, it will not reach or be below OHW. Drainage ditches within the project limits will be reestablished. **Fifteen (15) small culverts within the project limits will be replaced or added to the corridor, only two (2) of these carry USGS mapped streams.**

The existing bridge (BIN 6012230) over the Allegheny River will be replaced along the same alignment with a conventional bridge. The new bridge will have abutments behind the existing abutments. The existing three (3) piers will be partially removed and replaced with four (4) smaller piers. New permanent in water impacts will be due to the piers and placement of heavy stone fill along the banks below the abutments. Approximately 133 cubic yards of heavy stone fill and bedding material is proposed to be installed below ordinary high water (OHW) along the bed/banks as bank protection. Installation of four (4) new piers will impact approximately 145 square feet (SF) of riverbed. Temporary impacts from installation of causeway will impact 31,968 SF of riverbed, spread out over two (2) phases (Phase 1 – 14,931 SF, Phase 2 – 17,577 SF). Proposed permanent fill is anticipated to impact no more than approximately 0.0241 acre (1,050 SF) of stream channel below OHW.

JURISDICTION:
By making application for a permit, the applicant and its associated agents shall consent to the exclusive jurisdiction of the Seneca Nation of Indians Peacemakers’ Court over all applicant’s / agent’s activities while on Seneca Nation Land. The Seneca Nation in its discretion may pursue enforcement action in courts outside the Seneca Nation.
SIGNATURE PAGE

Application Submitted by: Michael Jurkowski, Regional Environmental Contact
Name / Title

Agency / Company: New York State Department of Transportation

July 14, 2022
Date

Signature

SENeca NATION OF INDIANS use only:

Reviewed by: __________________________ Date: __________________________

RECOMMENDATION:

______ Rejected

______ Referred To: _________________ For Review

______ Recommended for Tribal Council Approval

RECOMMENDATION:

______ Rejected

______ Referred To: _________________ For Review

______ Recommended for Tribal Council Approval

VALID ONLY WITH CERTIFIED COUNCIL RESOLUTION ATTACHED

__________________________
Date

__________________________
Clerk

Seneca Nation of Indians
The following general conditions must be followed in order for any authorization of a Seneca Nation Creek Permit for Construction Projects to be valid. The permit and conditions apply to any creek, stream, or other waterway that appears on USGS quadrangle map. Fill and other construction activities necessary for completion of a project are subject to Section 404 and 401 of the Federal Clean Waters Act of 1977. All activities will be periodically inspected by Seneca Nation representatives.

**GENERAL CONDITIONS**

1. **Navigation.** No activity may cause more than minimal adverse effect on navigation.
2. **Proper maintenance.** Any structure or fill authorized shall be properly maintained, including maintenance to insure public safety.
3. **Erosion and siltation controls.** Appropriate erosion and siltation controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills must be permanently stabilized at the earliest practicable date.
4. **Aquatic life movement.** No activity may substantially disrupt the movement of those species which normally migrate through the area, unless the activities primary purpose is to impound water.
5. **Equipment.** Heavy equipment working in wetlands must be placed on mats or other measures must be taken to minimize soil disturbances.
6. **Tree Removal.** An inventory of all affected trees shall be supplied for review by the Nation prior to commencement of work. Tree replacement may be required at a 2:1 ratio.
7. **Suitable material.** No discharge of dredged or fill material may consist of unsuitable material (e.g. trash, debris, car bodies, etc.) and materials discharged must be free from toxic pollutants in toxic amounts.
8. **Mitigation.** Discharges of dredged or fill material into waters of the Seneca Nation must be minimized to the maximum extent practicable at the project site (i.e. on-site), unless the SNI Council has approved a compensation mitigation plan for the specific regulated activity.
9. **Spawning areas.** Discharges into spawning areas during spawning seasons must be avoided to the maximum extent practicable.
10. **Obstruction of high flows.** To the maximum extent practicable, discharges must not permanently restrict or impede the passage of normal or expected high flows or cause the relocation of the water (unless the primary purpose of the fill is to impound waters).
11. **Adverse impacts from impoundments.** If the discharge creates an impoundment of water, adverse impacts on the aquatic system caused by the accelerated passage of water and/or the restriction of its flow shall be minimized to the maximum extent practicable.
12. **Removal of temporary fills.** Any temporary fills must be removed in their entirety and the affected area returned to their preexisting elevation and vegetation must be re-established.
13. **Discharge of materials.** This permit does not authorize the discharge of dredged or fill materials into any waterway for the purpose of creating temporary structures that include but are not limited to groins, work pads, lay-down areas, and access roads.

14. **Excess fill materials.** Any excess fill material shall be disposed of at an upland site well removed from a waterway and the adjacent wetland, and shall be adequately to preclude re-entry into these waters.

15. **Responsibility.** The lead agency is responsible for ensuring that the contractor and / or workers executing the activity(s) authorized by this permit have knowledge of the terms and conditions of the authorization and that a copy of the permit document is at the project site throughout the period the work is underway.

16. **Tree disposal.** The disposal of trees, brush and other debris in any stream corridor, wetland or surface water is prohibited.

17. **Debris.** Every effort shall be made to keep construction debris from entering the waterway or wetland, and shall be removed immediately should any such debris be present in the waterway or wetland.

18. **Discharge material.** Any discharge of dredged or fill material shall consist of suitable material free from toxic pollutants in toxic amounts.

19. **Erosion and sediment control.** All erosion and sediment control practices shall be in place prior to any grading or filling operations and installation of proposed structures or fills. They shall remain in place until construction is completed and the area is stabilized.

20. **Erosion prevention.** As soon as possible following construction all exposed banks and slops shall be seeded and mulched to prevent erosion.

**TEMPORARY SOIL EROSION AND SEDIMENT CONTROL**

21. All erosions and sediment control devices shall be placed prior to starting earthwork operations.

22. Temporary soil erosion and sediment control devices shall be checked and repaired as necessary, on a weekly basis and after each storm event. Periodic cleaning of the soil erosion and sediment control devices shall be necessary. Sediment deposits shall be removed from behind silt fences whenever more than 6 inches (150mm) of material has accumulated or if the fence has been breached or is bulging. Sediment traps and check dams shall be checked after each storm event and cleaned out if sediment deposits exceed 6 inches (150mm) or if one-half the design capacity has been exceeded, whichever is less.

23. Any disturbed areas that shall be left exposed more than 14 days, and are not subject to construction traffic shall immediately receive temporary seeding.

24. Any graded areas not subject to further disturbance or construction traffic shall within 14 days of final grading receive permanent vegetative cover.

25. All storm drainage outlets shall be stabilized before the discharge points become operational.

26. The site shall at all times be graded and maintained such that all storm water runoff is diverted to soil erosion and sediment control facilities.
27. Storm water from disturbed areas must be passed through a straw bale dike, sediment trap, or siltation fence before discharge beyond disturbed areas or into inlets of other drainage systems.

28. All stream channel work shall be limited to within the designated right-of-way; easement, approved temporary easements limits, or as described in approved Seneca Nation Consent and Release forms.

29. During construction, no wet or fresh concrete or leachate shall be allowed to escape to any waters nor shall washing from concrete trucks, mixers, or other devices be allowed to enter any waters.

30. All dredged and excavated material shall be disposed of on any upland site and be suitably stabilized so that it cannot reasonably re-enter any water body.

31. In the event de-watering operation becomes necessary a settling basin will be required unless the pump discharge is clear and free of sediment as the flowing stream.

32. Heavy equipment shall not be driven in the water.

33. The locations of erosion and sediment control measures may require field adjustments depending on the sequence of construction activities, construction methods, and/or actual field conditions. The Seneca Nation shall be immediately notified of any significant field changes to the erosion and sediment control measures indicated in the application.
PROJECT LOCATION MAPS

BRIDGE REPLACEMENT AND HIGHWAY REHABILITATION PROJECT

OLD ROUTE 17

PIN 5758.79

SENeca NATION OF INDIANS (SNI) ALLEGANY TERRITORY

CATTARAUGUS COUNTY
PHOTOGRAPHS

BRIDGE REPLACEMENT AND HIGHWAY REHABILITATION PROJECT

OLD ROUTE 17

PIN 5758.79

SENeca NATION OF INDIANS (SNI) ALLEGANY TERRITORY

CATTARAUGUS COUNTY


PLANS

BRIDGE REPLACEMENT AND HIGHWAY REHABILITATION PROJECT

OLD ROUTE 17

PIN 5758.79

SENeca NATION OF INDIANS (SNI) ALLEgANY TERRITORY

CATTARAUGUS COUNTY
OLD ROUTE 17
BUNKER HILL ROAD TO BREED RUN ROAD
RED HOUSE BRIDGE
TOWNS OF COLD SPRING, RED HOUSE AND SALAMANCA
CATTARAUGUS COUNTY

CONTRACT XXXXXX
COUNTY: CATTARAUGUS

PROJECT LOCATION

THE PROJECT IS LOCATED ON OLD ROUTE 17 FROM BUNKER HILL RD TO BREED RUN RD. IT IS ALSO LOCATED WITHIN THE PROJECT LIMITS 200 FT NORTH OF BREED RUN RIVER. CONTRACT LIMITS START AT STA 100+00 AND END AT STA 420+45.

THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT PROPOSAL.

ALL WORK CONTAINED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS AND GUIDELINES REFERENCED IN THE CONTRACT "PROPOSAL." THE CONTRACT "PROPOSAL" IS CURRENT ON THE DATE OF ADVISEMENT FOR BIDS, SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEETS UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

THE LATEST ISSUANCES OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND THE CHANGES OR PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEETS UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

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1. THE LEGEND ILLUSTRATES MAPPING FEATURES EXISTING AND PROPOSED.
2. FEATURES ARE ORIENTED ALONG CENTERLINE, HORIZONTAL SEQUENCE, UTILITY LINES, EDGE OF FINE PAI, UTILITY FOLIAGE.
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
4. PROPOSED FEATURE SYMBOLS ILLUSTRATE EXISTING FEATURE SYMBOLS EXCLUDING LINES READING FOR PROPOSED FEATURES ARE VACANT PLAS IN OR A DARK SHADE.
5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A LEGEND SYMBOL AT THE EDGE PLATE, PROPOSED EDGE OF SHAPE ARE SHOWN ON THE LEGEND SHEET.
6. FEATURES SHOWN ON THE HEAVY LINES ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.
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### Diagram

#### Traffic Control

- **Top Box, Junction**: ICB, ICD
- **Box, Full Box**: ICNT, ICNTL
- **Box, Half Box**: ICNTL
- **Box, Work Box**: ICNTL, ICNTL

#### Traffic Work Zone

- **Arrow Panel**: ACO, ACO
- **Arrow Panel**: ACO, ACO
- **Arrow Panel**: ACO, ACO

#### Traffic

- **Street Sign**: ACO, ACO
- **Street Sign**: ACO, ACO
- **Street Sign**: ACO, ACO

#### Work

- **Roundabout**: ACO, ACO
- **Roundabout**: ACO, ACO
- **Roundabout**: ACO, ACO

#### Roadway

- **Street Sign**: ACO, ACO
- **Street Sign**: ACO, ACO
- **Street Sign**: ACO, ACO

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### Notes

1. The legend illustrates mapping features existing and proposed.
2. Features are shown as either linear, triangular, or rectangular.
3. Features shown in the legend at existing features have corresponding feature names.
4. Proposed feature symbols are identical to existing feature symbols.
5. Features shown in the legend at proposed features are shown in brackets.
6. Features shown in the legend at proposed features are proposed only and do not have corresponding existing features.
GENERAL NOTES

1. The designation of certain areas will be performed as specified under section 3.1.2 of the project standard specifications, protection and restoration of property and landscape.

2. All items that are disturbed during construction and require protective or erosion control treatments will be performed as specified under section 3.1.2 of the project standard specifications, protection and restoration of property and landscape.

3. The project documents may be modified to correct mistakes, errors and omissions in the contract documents, construction plans and contract documents, and to provide additional information to the contractor.

4. The project documents may be modified by the owner to correct mistakes, errors and omissions in the contract documents, construction plans and contract documents, and to provide additional information to the contractor.

5. The project documents may be modified to correct mistakes, errors and omissions in the contract documents, construction plans and contract documents, and to provide additional information to the contractor.

6. All items that are disturbed during construction and require protective or erosion control treatments will be performed as specified under section 3.1.2 of the project standard specifications, protection and restoration of property and landscape.

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32. All items that are disturbed during construction and require protective or erosion control treatments will be performed as specified under section 3.1.2 of the project standard specifications, protection and restoration of property and landscape.
FIELD CONDITIONS ADJUSTED TO FIT DISTANCE CAN BE WITH LIGHTS TYPE III BARRICADE R11-3A OR R11-3B SEE NOTE 1 & DETAIL 1

R11-2 SEE DETAIL 1 FOR SIGN PLACEMENT

THE TEMPORARY CONCRETE BARRIER SHALL BE REPLACED WITH TYPE III BARRICADES IF THE BARRICADES ARE NOT VISIBLE FROM ADVANCED CLOSURE.

THE SIGN PANEL SHALL BE ON A SEPARATE SIGN SUPPORT, NOT ON THE TYPE III BARRICADE.

THE TEMPORARY CONCRETE BARRIER SHALL BE PULLED AWAY FROM BARRICADES.

THE SIGN PANELS OF THE TYPE III BARRICADE SHOULDN'T BE SUPPORTED ON THE BARRICADE.

NOTES:
1. R11-2 OR R11-3B MAY BE LOCATED ON THE ROAD Cf. A. E. 1.1. TYPING 80 FT FROM THE ROAD EDGE. 1.1. TYPING FROM SUPPORT, NOT ON THE TYPE III BARRICADE.
2. SEE M.U.T.C.D SECTION 6F.63 AND FIGURE 6F-7 FOR DETAILS ON THE DIRECTION OF STRIPING ON BARRICADES.
3. THE TEMPORARY CONCRETE BARRIER SHALL BE REPLACED WITH TYPE III BARRICADES IF THE BARRICADES ARE NOT VISIBLE FROM ADVANCED CLOSURE.
OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

BASELINE TIES

ALTERED BY:

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DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

IN-HOLE HOLLOW

REGION:
BLT-6

COUNTY:

PROJECT MANAGER
M IC HA EL  F O R C U CC I
SCOTT MCKAY
SANJAY SINGH
JE NN IF E  C ON R A D

JOB MANAGER

DESIGN SUPERVISOR

DESIGN DRAFTING CHECK

C OR MMENT

FILE NAME = 575879_CP_H_BLT_6.DGN

AFFIX SEAL:

FILE NAME = 575879_CP_H_BLT_6.DGN

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CONTROL POINT #33

STATION IS A SNI CAP & REBAR ON THE EAST EDGE OF OLD RTE 17.

HORIZONTAL: 1997 CORS (FORMER)
VERTICAL: NAVD88 (GPS DERIVED)

COMBINED FACTOR: 0.99988233327
VERTICAL: NAVD88 (GPS DERIVED)
HORIZONTAL: NAD83 (CORS 96)

LANE OF OLD RTE 17.

STATION IS A PUNCH HOLE IN FLAT ROCK USED FOR PHOTO TARGET #234. POINT IS LOCATED IN THE SOUTHBOUND LANE OF OLD RTE 17.

CONTROL POINT #34 (PT 234)

HORIZONTAL: 1997 CORS (FORMER)
VERTICAL: NAVD88 (GPS DERIVED)

COMBINED FACTOR: 0.99988233327
VERTICAL: NAVD88 (GPS DERIVED)
HORIZONTAL: NAD83 (CORS 96)

STATION IS A SMALL PK NAIL IN THE NORTHBOUND LANE OF OLD RTE 17.

CONTROL POINT #35

HORIZONTAL: 1997 CORS (FORMER)
VERTICAL: NAVD88 (GPS DERIVED)

COMBINED FACTOR: 0.99988233327
VERTICAL: NAVD88 (GPS DERIVED)
HORIZONTAL: NAD83 (CORS 96)

STATION IS A PK NAIL IN THE SOUTHBOUND LANE OF OLD RTE 17. POINT WAS ALSO A PHOTO TARGET 235.

CONTROL POINT #36 (PT 235)
### PAVEMENT MARKING TABLE

<table>
<thead>
<tr>
<th>FROM STATION</th>
<th>TO STATION</th>
<th>ITEM 640.20 (LF)</th>
<th>ITEM 640.21 (LF)</th>
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<td>286=56.90</td>
<td>324+55.12</td>
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<td>3798.22</td>
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</table>

**TOTAL:** 3798.22
GROUND EXISTING SURFACE

EXISTING DEPTH VARIES - BRING TO MATCH SURROUNDING LINE AND GRADE

PROPOSED PIPE

LIMITS OF ITEM 203.07 - SELECT GRANULAR FILL

4" VARIES BASED ON PIPE DIAMETER

NOT TO SCALE

BOTTOM WIDTH AND PIPE DIAMETER VARIES BASED ON EXISTING DITCH AND GRADE

MATCH EXISTING LINE

ITEM 610.1601 - TURF ESTABLISHMENT (WHEN ITEM 627.50140008 (TYP.)

TO FACILITATE DRAINAGE

MATCH PROPOSED DITCH INVERT AND SLOPE

NEW INVERT - SELECT GRANULAR FILL

NEW OUTLET

TRAIL PIPE DETAIL

FOR USE WHERE PROPOSED DITCH CROSSES TRAILS

NOT TO SCALE

DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

CONTRACT NUMBER

DRAWING NO.

SHEET NO.

FUNCTIONAL DESIGN

DESIGN SUPERVISOR

DRAFTING CHECK

CHECK

 بشروة

MISCELLANEOUS DETAILS

FOR USE WHEN PIPES ARE PLACED ACROSS MAINLINE AND SIDE ROADS

NOT TO SCALE
<table>
<thead>
<tr>
<th>SOURCE</th>
<th>EXCAVATION</th>
<th>ITEM 203.02</th>
<th>ITEM 203.03</th>
</tr>
</thead>
<tbody>
<tr>
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**SUMMARY OF TRENCH AND CULVERT EXCAVATION (ITEM 206.0201 ONLY)**

<table>
<thead>
<tr>
<th>SOURCE</th>
<th>EXCAVATION</th>
<th>ITEM 206.0201</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

**DEFINITIONS**

- **C₀** - Excavation for required benching, both longitudinal and transverse.
- **C₁** - Excavation for subgrade improvement.
- **C₂** - Excavation from cut slope necessary to place slope protection.
- **C₃** - Portion of cut assumed to be earth suitable for embankment construction, excluding **C₀** and **C₄**.
- **T₀** - **C₀ + C₁ + C₂ + C₃** - Total earth excavation assumed suitable for embankment construction.
- **T₁** - **C₁ + C₂ + C₃** - Portion of cut assumed to be rock, including **C₀** if applicable.
- **F₀** - **C₀ + C₃** - Total excavation assumed unsuitable for embankment construction.
- **F₁** - **C₁ + C₂** - Portion of cut assumed to be rock.
- **F₂** - **C₂** - Portion of cut assumed to be rock, excluding **C₀**.
- **F₃** - **C₃** - Portion of cut assumed to be rock, excluding **C₁**.
- **F₄** - **C₄** - Portion of cut assumed to be rock, excluding **C₂**.

**NOTES:**

- The contractor's attention is directed to the fact that these tables are estimates and are provided for the purpose of preparing an estimate. They are not to be construed as being exact. They are intended to identify the nature of the work to be performed, and in no way represent a significant difference from this representation when encountered. When the actual work will be handled according to the specifications governing this project.
- **206.0201** Unclassified excavation and disposal.
- **206.0201** Embankment in place.
- **206.0201** Trench and culvert excavation.

**SUMMARY OF EARTHWORK (ITEMS 203.02 AND 203.03 ONLY)**

<table>
<thead>
<tr>
<th>SOURCE</th>
<th>EXCAVATION</th>
<th>ITEM 203.02</th>
<th>ITEM 203.03</th>
</tr>
</thead>
<tbody>
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**TOTALS**

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<tr>
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<th>EXCAVATION</th>
<th>ITEM 206.0201</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**DEFINITIONS**

- **T₀** - Total earth excavation assumed suitable for embankment construction.
- **F₀** - Total excavation assumed unsuitable for embankment construction.
- **T₁** - Total excavation.
- **F₁** - Total excavation of topsoil.
- **F₂** - Total excavation of topsoil beneath embankments.
- **F₃** - Total excavation of unsuitable material in cut.
- **F₄** - Total excavation of unsuitable material beneath embankments.
- **C₀** - Total value of the suitable excavated material in embankment.
- **C₁** - Total value of the suitable excavated material in subgrade.
- **C₂** - Total value of the suitable excavated material in cut slope.
- **C₃** - Total value of the suitable excavated material in subgrade slope.
- **C₄** - Total value of the suitable excavated material in cut slope.

**NOTES:**

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- **203.02** Unclassified excavation and disposal.
- **203.03** Embankment in place.
- **206.0201** Trench and culvert excavation.
<table>
<thead>
<tr>
<th>SUBDIVISION NO.</th>
<th>LOCATION STATION TO STATION</th>
<th>SUITABLE EXCAVATION</th>
<th>ROCK</th>
<th>UNSUITABLE EXCAVATION</th>
<th>TOTAL EXCAVATION</th>
<th>EMBANKMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>$c_b, c_g, c_p, c_e$</td>
<td>$t_e, c_r$</td>
<td>$c_a, c_s, t_u$</td>
<td>$c_t, f_b, f_s$</td>
<td>$f, f_t$</td>
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</table>

**DESCRIPTION OF ALTERATIONS:**

**AS-BUILT REVISIONS**

**FILE NAME:**

**USE:**

**DATE/TIME:**

**CONTRACT NUMBER:**

**DRAWING NO:**

**SHEET NO:**

**REGION:**

**LOCATION (STATION TO STATION):**

**SUITEABLE EXCAVATION**

**ROCK**

**UNSUITABLE EXCAVATION**

**TOTAL EXCAVATION**

**EMBANKMENT**

**FOR DEFINITIONS AND NOTES SEE DWG. ES-1**

**ALL DIMENSIONS IN YD UNLESS OTHERWISE NOTED**

**ES-02**

**CATTARAUGUS**

**FOR DEFINITIONS AND NOTES SEE DWG. ES-1**

**C510207**

**ALL DIMENSIONS IN YD UNLESS OTHERWISE NOTED**

**EARTHWORK SUMMARY SHEET**

**Department of Transportation**

**DRAWING NO:**

**SHEET NO:**
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

ALTERED BY:

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CONTRACT NUMBER

DRAWING NO.

SHEET NO.

UTILITY QUALITY LEVEL D

GENERAL PLAN

DRAWING NO. CIP-1

SHEET NO.

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FILE NAME =

USER =

DATE / TIME =

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UTILITY QUALITY LEVEL D

MATCH TO GNP-3

MATCH TO GNP-5

GENERAL PLAN

CATTARAUGUS

5758.79

GNP-4

MATCH TO GNP-5

PIPE END SECTION 18 INCH DIAMETER

ITEM 603.7303 - REINFORCED CONCRETE

PIPE END SECTION 18 INCH DIAMETER

ITEM 603.7403 - REINFORCED CONCRETE

PIPE, CLASS II, 18 INCH DIAMETER - 54 FT

ITEM 603.7403 - REINFORCED CONCRETE

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ALTERED BY:
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DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

DATE/TIME =

ALTERED BY:

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DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

UTILITY QUALITY LEVEL D

INVERT: 1331.9291'
INVERT: 1332.7174'
INVERT: 1333.3327'
INVERT: 1339.3755'

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
ITEM 606.10 - BOX BEAM GUIDE RAIL - 582' END ASSEMBLY, TYPE IIA

ITEM 606.12 - BOX BEAM GUIDE RAIL - 72' END ASSEMBLY, TYPE IIA

MATCH TO G NP-1 1
MATCH TO G NP-1 3

DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

UTILITY QUALITY LEVEL D

GENERAL PLAN

SHEET NO.

DRAWING NO.

CONTRACT NUMBER

INDEXES:

CAUSITY:

UNLESS OTHERWISE NOTED

TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER

ALLEGHENY SENECA NATION INDIAN RESERVATION

TOTAL LENGTH 0.78 EFDS: 6012230

ASSISTANT MANAGER

JOB MANAGER

DEISGN SUPERVISOR

COUNTY:

AFFIX SEAL:

FILE NAME =

USER =

DATE / TIME =

30TH OF JUNE 2022 1:40 PM

FOR HAN LEE LEUNG

DESIGN DRAWING

CATTARAUGUS

M A T H E W  F O R C U C C I

M O H A M M A D  H A Q A E

S C O T T  M C K A Y

J E N N I F E R  C O N R A D

M I C H A E L  F O R C U C C I

D A N I I L  T A T A R E V I C H

S O U T H E R N  C O U N T Y

UREAL PLAN

6012230_C_P_P_GNP_12

ITEM 603.7302 - REINFORCED CONCRETE PIPE, END SECTIONS 15 IN DIAMETER

ITEM 603.7402 - REINFORCED CONCRETE PIPE, END ASSEMBLY, TYPE IIA

ITEM 606.120201 - BOX BEAM GUIDE RAIL

INVERT: 1334.6119'
MATCH TO GNP-13
MATCH TO GNP-15
GNP-14

ITEM 606.10 - BOX BEAM GUIDE RAIL - 3864'
ITEM 620.10 - GALVANIZED GABIONS
ITEM 603.7303 - REINFORCED CONCRETE PIPE
ITEM 603.7403 - REINFORCED CONCRETE PIPE, RAIL END ASSEMBLY, TYPE IIA
ITEM 606.120201 - BOX BEAM GUIDE RAIL - 3864'
ITEM 606.120202 - BOX BEAM GUIDE RAIL - 3864'

INVERT: 1339.8589'
INVERT: 1337.5784'
INVERT: 1339.8274'
INVERT: 1340.3592'
INVERT: 1339.3221'

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GENERAL PLAN

CATTARAUGUS

5758.79

C510207

END SECTION 18 INCH DIAMETER

UTILITY QUALITY LEVEL D

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STANDARD CONSTRUCTION SPECIFICATIONS, REV. 10-99

CONSTRUCTION DOCUMENTS, NOVEMBER 1999

5/21/99

S C O TT  M C K A Y

S C O TT  M C K A Y

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M OHA MM AD  HAQU E

J E NN IF E R  C ON R AD

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D A N I IL  T A T A R E V IC H

TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

ALLEGHENY SENECA NATION INDIAN RESERVATION

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD

OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER

REGION:
02040680
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1" = 40'

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL, ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER OR DELETE ANY PART OF AN ITEM IN THE DOCUMENT STAMPED "ALtered by" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIED DESCRIPTION OF THE ALTERATION.

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CONTRACT NUMBER
DRAWING NO.
SHEET NO.

FILE NAME  =
USER  =
DATE /TIME  =
AFFIX SEAL:
ALTERED BY:

DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

COUNTY:

PROJECT MANAGER
DESIGN SUPERVISOR
JOB MANAGER
DESIGN DRAFTING

2022  13:28
ALLEGHENY RIVER

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

ITEM 606.10 - BOX BEAM GUIDE RAIL - 3864'
ITEM 603.6602 - REINFORCED CONCRETE HORIZONTAL ELLIPICAL PIPE, CLASS HEII 19" RISE, 30" SPAN - 38'

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STA. 192 +28.18
CULVERT NO. 7
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USER =

DATE / TIME =

ON:

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CONTRACT NUMBER

DRAWING NO.

SHEET NO.

REGION:

MATCH TO GNP-19

MATCH TO GNP-21

GNP-20

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD

OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER

ALLEGHENY SENeca NATION INDIAN RESERVATION

TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

GENERAL PLAN

CATTARAUGUS

UTILITY QUALITY LEVEL D

C510207

ELLIPTICAL PIPE, CLASS HEII 19" RISE, 30" SPAN - 48'

ITEM 603.6602 - REINFORCED CONCRETE HORIZONTAL

ITEM 606.10 - BOX BEAM GUIDE RAIL - 3964'

DANIEL TATAROVICH

MOHAMMAD HAQUE

SCOTT MCKAY

JENNIFER CONRAD

MICHAEL FORCELLI

MOHAMMAD HAQUE

SCOTT MCKAY

209+00

210+00

211+00

212+00

213+00

214+00
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USER =

DATE / TIME =

ALTERED BY:

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GENERAL PLAN

UTILITY QUALITY LEVEL D

C705235

GNP-24

TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

ALLEGHENY SENECA NATION INDIAN RESERVATION

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD

FILE NAME =

USER =

DATE / TIME =

ALTERED BY:

CONTRACT NUMBER

DRAWING NO.

SHEET NO.

GNP-23

GNP-25

MAYA HAQUE

S C O TT  M C KAY

M OHA MM AD  HAQU E

J E NN IF E  C O N R AD

DAN I IL  T A T A R EV I C H

M I C H AEL  F O R C U CC I

Department of Transportation
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

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DRAWING NO. C510207

CATTARAUGUS

MATCH TO GNP-29

MATCH TO GNP-31

JENNIFER CONRAD

MICHAEL FORCucci

MOHAMMAD HAQUE

SCOTT MCKAY

MOHAMMAD HAQUE

SCOTT MCKAY

267+00

268+00

269+00

270+00

271+00

272+00

267+00

268+00

269+00

270+00

271+00

272+00

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INVERT: 1343.3436'

INVERT: 1342.9350'

GENERAL PLAN

CONTRACT NUMBER

DRAWING NO. C510207

SHEET NO.
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

ON: 01 - JUL - 2022  13:31

m fo rc u cc i

BRIDGES

CULVERTS

PIN

JOB MANAGER

DESIGN SUPERVISOR

COUNTRY:

PROJECT MANAGER

DESIGN

DRAWING CHECK

CHECK

REGION:

MATCH TO GNP-35

MATCH TO GNP-37

GNP-36

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD

OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER

ALLEGHENY SENECA NATION INDIAN RESERVATION

TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

5758.79

UTILITY QUALITY LEVEL D

GENERAL PLAN

CATTARAUGUS

575879_ C P H _ GN P _36

COFFERDAM AROUND PROPOSED PIERS

FOO PRINT OF EXISTING PIERS

COFFERDAM 4' AROUND LARGEST FOOTPRINT OF EXISTING PIERS

RAIL END ASSEMBLY, TYPE IIA

ITEM 606.120201 - BOX BEAM GUIDE

GUIDE RAIL - 492'

ITEM 606.10 - BOX BEAM

GUIDE RAIL - 534'

ITEM 606.10 - BOX BEAM

RAIL END ASSEMBLY, TYPE IIA

ITEM 606.120201 - BOX BEAM GUIDE

PROPOSED TRAIL. SEE DWG. PRO-1T.

ESTIMATE BRIDGE RAIL

MATCH TO GNP-35

MATCH TO GNP-37

GNP-36

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD

OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER

ALLEGHENY SENECA NATION INDIAN RESERVATION

TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

5758.79

UTILITY QUALITY LEVEL D

GENERAL PLAN

CATTARAUGUS

575879_ C P H _ GN P _36

COFFERDAM AROUND PROPOSED PIERS

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RAIL END ASSEMBLY, TYPE IIA

ITEM 606.120201 - BOX BEAM GUIDE

PROPOSED TRAIL. SEE DWG. PRO-1T.

ESTIMATE BRIDGE RAIL
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:

FILE NAME =
USER =
DATE /TIME =

ALTERED BY:
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CONTRACT NUMBER
DRAWING NO.
SHEET NO.

GENERAL PLAN

UTILITY QUALITY LEVEL D

INDEX:

CAVITY:

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER
DRAWING NO.
SHEET NO.

300'
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USE =

DATE/TIME =

ALTERED BY:

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DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:

FILE NAME =
USE =
DATE /TIME =

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CONTRACT NUMBER
DRAWING NO.
SHEET NO.

REGION:

GENERAL PLAN

UTILITY QUALITY LEVEL D

TO MATCH TO GNP-48, GNP-50

TO MATCH TO GNP-48
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USE =

DATE/TIME =

ALTERED BY:

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CONTRACT NUMBER

DRAWING NO.

SHEET NO.

REGION:

GNP-51

UTILITY QUALITY LEVEL D

GENERAL PLAN

MATCH TO GNP-50 MATCH TO GNP-52
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:
JENNIFER CONRAD
MIRIAM MOSCUEI
DANIEL TATAROVICH
SCOTT MCKAY
MOSAAM HAJE

CONTRACT NUMBER
DRAWING NO.
SHEET NO.
REGION:
GNP-52
CATTARAUGUS

UTILITY QUALITY LEVEL D

5758.79

GENERAL PLAN

MATCH TO GNP-51
MATCH TO GNP-53

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NO ALtered by any person, unless they are acting under the direction of a licensed professional engineer, architect, landscape architect, or land surveyor, is a violation of law and the stamp of a licensed professional is required. The altering architect, engineer, landscape architect, or land surveyor shall stamp the document and include the notation "altered by" followed by their signature, the date of such alteration, and a specific description of the alteration.
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

All dimensions in ft unless otherwise noted.

It is a violation of law for any person, unless they are acting under the direction of a licensed professional engineer, architect, landscape architect, or land surveyor, to alter or use as any part of an engineering plan or plan drawing the stamp of a licensed professional in the absence of the altering engineer, architect, landscape architect, or land surveyor. You shall stamp the document and include the notation "ALTERED BY" followed by your signature, the date of such alteration, and a specific description of the alteration.

DRAWING NO. 6012230 - C510207
SHEET NO. 05

MATCH TO GNP-53
MATCH TO GNP-55

REFERENCES:

CATTARAUGUS

GENERAL PLAN

UTILITY QUALITY LEVEL 0

JENNIFER CONRAD
MICHAEL FORCUCCI
MADIN HAQUE
SCOTT MCKAY

REGION:

GNP-54

CONTRACT NUMBER

DRAWING NO. GNP-54
SHEET NO.
MATCH TO GNP-55
MATCH TO GNP-56

DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USER =

DATE / TIME =

ALTERED BY:

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AS-BUILT REVISIONS

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AFFIX SEAL:

FILE NAME =

USE =

DATE / TIME =

ALTERED BY:

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### Description of Alterations:
AS-BUILT REVISIONS

All dimensions in ft unless otherwise noted.

### Notes:
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- If an item bearing the stamp of a licensed professional is altered, the altering engineer, architect, landscape architect, or land surveyor shall stamp the document and include the notation "ALTERED BY" followed by their signature, the date of such alteration, and a specific description of the alteration.

### Project Details:
- **Contract Number:** PRO-2
- **Drawing Number:** 6012230
- **Design and Drafting Check:** Danil Tatarevich
- **Job Manager:** Mohammad Haque
- **Design Engineer:** Scott McKay
- **Project Manager:** Scott McKay

### Profile Data:
- **Location:** Old Route 17, Bunker Hill Rd to Breeds Run Road
- **Project:** Old Route 17 (Bin 6012230) over Allegheny River
- **Region:** Allegheny Seneca Nation Indian Reservation
- **Town:** Cold Spring, Red House and Salamanca

### Elevations and Stations:

<table>
<thead>
<tr>
<th>Station</th>
<th>Elevation</th>
<th>Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>108+00</td>
<td>1356.87</td>
<td></td>
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<tr>
<td>109+00</td>
<td>1357.65</td>
<td></td>
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<td>1357.20</td>
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<td>112+00</td>
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<tr>
<td>113+00</td>
<td>1356.75</td>
<td></td>
</tr>
</tbody>
</table>

### Super Elevation:
- **E = 0.05 ft.**
- **G2 = -0.01%**
- **G1 = -0.45%**
- **L = 100.00 ft.**
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

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OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USES =

DATE/TIME =

ALTERED BY:

SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR,

CONTRACT NUMBER

DRAWING NO.

SHEET NO.

LOCATION:

REGION:

TOTAL LENGTH:

PROFILE

SUPERELEVATION

ELEVATION

STATION
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

DISTANCE MEASUREMENTS
DESCRIPTION OF ALTERATIONS
ALL ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
NEW 5/58.75
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

SUPER ELEVATION

SSD = 991.49 FT.
E = -0.29 FT.
G2 = -0.29%
G1 = +0.92%
L = 190.00 FT.
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USE =

DATE / TIME =

ALTERED BY:

SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR,

CONTRACT NUMBER

DRAWING NO.

SHEET NO.
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USE =

DATE/TIME =

ALTERED BY:

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CONTRACT NUMBER

DRAWING NO.

SHEET NO.

REGION:

PRO-9

6012230

JENNIFER CONRAD

SCOTT MCKAY

MOHAMMAD HAQUE

MICHAEL FOUCHI

MOHAMMAD HAQUE

SCOTT MCKAY

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD

OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER

ALLEGHENY SENECA NATION INDIAN RESERVATION

TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

5758.79

PROFILE

STATION

ELEVATION

SUPERELEVATION

STATION 144+40.478

e = -4.00%

STA. 145+23.478

e = 0.00%

RT LANE & RT SHOULDER 4.00%

STA. 146+06.478

e = 4.00%

RT 1637.00 Left

ELEV 1357.88

PVC 144+04.83

ELEV 1357.55

PV1 145+17.33

ELEV 1352.40

PV T 146+29.83

E= -1.21 FT.

G2 = -4.58%

SSD = 363.96 FT.

G1 = -0.29%

L = 225.00 FT.
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:
FILE NAME =
USER =
DATE /TIME =

ALTERED BY:
SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:
FILE NAME =
USE =
DATE / TIME =

ALTERED BY:
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OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

DETAILED DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USER =

DATE / TIME =

ALTERED BY:

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

CLIMATE 6012230

JENNIFER CONRAD
SCOTT MCKAY
MOHAMMAD HAQUE
DANIEL TARAREVICH
MICHAEL FORCUCCI
MOHAMMAD HAQUE
SCOTT MCKAY
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER ANY DRAWING. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

ALTERED BY:

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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR

CONTRACT NUMBER

DRAWING NO.

SHEET NO.

_REGION:

_COUNTY:

_PROJECT MANAGER

DESIGN SUPERVISOR

JOB MANAGER

DESIGN DRAFTING

CHECK

CHECK

FILE NAME =

USE =

DATE/TIME =

AFFIX SEAL:

203+00

204+00

205+00

206+00

207+00

208+00

208+50

ELEVATION

STATION

1331.2

1331.2

1331.1

1331.1

1331.2

1331.1

1331.4

1331.5

1331.6

1331.5

1331.3

1332.52

1332.51

1332.51

1332.50

1332.50

1332.50

1332.49

1332.49

1332.48

1332.51

1332.58

1332.69

SUPERELEVATION

E= 0.34 FT.

G2 = +0.69%

G1 = -0.01%

L = 392.00 FT.
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED
ON:
AFFIX SEAL:
FILE NAME =
USER =
DATE / TIME =
ALTERED BY:
SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR,

CONTRACT NUMBER
DRAWING NO.
SHEET NO.
REGION:
COUNTY:
PROJECT MANAGER
DESIGN SUPERVISOR
JOB MANAGER
DESIGN DRAFTING CHECK
CHEC
CHEC

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

PROFILE

ELEVATION
STATION

SUPER ELEVATION
OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

SUPERELEVATION

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:

FILE NAME =
USER =
DATE /TIME =
ALTERED BY:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PRO-23
SSD = 2294.61 FT.
E = -0.16 FT.
G2 = +0.19%
G1 = +0.69%
L = 255.00 FT.
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:
FILE NAME =

PROJECT NUMBER
DRAWING NO.
SHEET NO.
REGION:
COUNTY:
JOB MANAGER
DESIGN SUPERVISOR

ALTERED BY:
SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PROJECT NUMBER
NAME:
SIGNATURE:
DATE:

CONTRACT NUMBER

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

PROFILE
SUPERELEVATION

STATION

ELEVA TION
STATION
ELEV 1339.3
PVC 228+06.60
ELEV 1339.5
PV T 229+06.60
ELEV 1339.7
ELEV 1340.1
ELEV 1340.2
ELEV 1340.4
ELEV 1340.6
ELEV 1341.06
ELEV 1341.17
ELEV 1341.34
ELEV 1341.48
ELEV 1341.65
ELEV 1341.79

SUPERELEVATION

E= 0.02 FT.
G2 = +0.34%
G1 = +0.19%
L = 100.00 FT.
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR,

TO ALTER ANY SHEET IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR

SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

ELEVATION

PROFILE

STATION

SUPERELEVATION
236+00
237+00
238+00
239+00
240+00
241+00
241+50

1325
1330
1335
1340
1345
1350
1355

ELEVATION

STATION

DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:
FILE NAME  =
USER  =
DATE / TIME  =
ALTERED BY:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER OR FILL IN ANY PART OF ANY WORK, IF ANY PART MEANS THE STAMP OF A LICENSED PROFESSIONAL. IF ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIED DESCRIPTION OF THE ALTERATION.

SUPERELEVATION

SSD = 899.15 FT.
E= -0.28 FT.
G2 = -0.99%
G1 = +0.34%
L = 170.00 FT.
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR,
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER IN ANY WAY, HOWEVER SMALL, THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USE =

DATE / TIME =

ALTERED BY:

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DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER
DRAWING NO.
SHEET NO.

OFFICIAL SeALS

ALTERED BY:

TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:

FILE NAME =
USE =
DATE/TIME =

ALTERED BY:
SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR,

CONTRACT NUMBER
DRAWING NO.
SHEET NO.

REGION:
CATTARAUGUS

PROFILE

ELEVATION

STATION

SUPERELEVATION

LT SHOULDER & RT SHOULDER -2.00%
RT LANE -6.00%
e = -6.00%
e = -2.00%
e = -4.10%
STA. 291+53.483
STA. 291+97.128
STA. 292+80.128

LT LANE & LT SHOULDER 4.00%
RT SHOULDER -4.00%
e = -4.00%
e = 4.00%
STA. 293+21.628

R1500.00 Right

GRAVEL ENDS
ASPHALT BEGINS
+0.07%
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

ALTERED BY:

SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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CONTRACT NUMBER
DRAWING NO.
SHEET NO.

P R O J E C T  M AN A G E R
C O U N T Y:

D E S I G N  D R A F T I N G
C H E C K
C H E C K

D E S I G N  S U P E R V I S O R

J E NN I F E R  C O N N E R
S C O TT  M C K A Y
M O H A M M A D  H A Q E
D A N I I L  T A T A R E V I C H
M I C H A E L  F O R C U C C I
M O H A M M A D  H A Q E
S C O TT  M C K A Y

C 5 1 0 2 0 7

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

E L E V A T I O N
PT. STATION & ELEV.

5758.79
575879_ C P H _ P R O _37

STATION

1325
1330
1335
1340
1345
1350
1355

1355

1325
1330
1335
1340
1345
1350
1355

297+00
298+00
299+00
300+00
301+00
302+00
303+00

ELE VA T I O N

Super Elev: LT LANE & LT SHOULDER 4.00%
RT SHOULDER -4.00%
e = -4.00%
e = 4.00%
STA. 299+97.645

Super Elev: RT SHOULDER -2.00%
e = -2.00%
e = 2.00%
STA. 300+39.145

Super Elev: LT SHOULDER -2.00%
e = -2.00%
STA. 301+22.145

ALLEGHENY I N D I A N   R E S E R V A T I O N

504+00
515+00
526+00
537+00
548+00
559+00
570+00

5758.79
575879_ C P H _ P R O _37

SUPERELEVATION

E = +0.13 FT.
G2 = +1.64%
G1 = +0.07%
L = 66.00 FT.
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ALTERED BY:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL, ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

5758.79

SUPERELEVATION

LT LANE -6.00%

STA. 308+74.731  e = -2.00%

STA. 309+57.731  e = 0.00%

STA. 310+40.731  e = 2.00%

LT SHOULDER -4.00%

RT LANE & RT SHOULDER 4.00%

STA. 310+82.231  e = 4.00%

STA. 310+82.231  e = -4.00%

HSD = 513.34 FT.

E= 1.48 FT.

G2 = +1.56%

G1 = -1.74%

L = 360.00 FT.
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USE =

DATE/TIME =

ALTERED BY:

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CONTRACT NUMBER

DRAWING NO.

SHEET NO.

REGION:

COUNTY:

PROJECT MANAGER

DESIGN SUPERVISOR

JOB MANAGER

DESIGN DRAFTING CHECK

CHECK

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD

OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER

ALLEGHENY SENECA NATION INDIAN RESERVATION

TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

5758.79

PROFILE

CATTARAUGUS

313+00

314+00

315+00

316+00

317+00

318+00

318+50

STATION

1343.7

1342.8

1342.2

1342.0

1342.5

1342.9

1343.5

1344.2

1345.0

1345.8

1346.5

ELEVATION

STATION 1343.43

ELEVA 1340.56

PV 314 + 64.94

ELEVA 1342.04

LOW 314 + 74.77

ELEVA 1343.36

PV T 316 + 44.94

ELEVA 1345.70

PV C 317 + 95.38

ELEVA 1346.48

PV I 318 + 45.38

R1427.16 Left

R713.58 Left

HSD = 513.34 FT.

E= 1.48 FT.

G2 = +1.56%

G1 = -1.74%

L = 360.00 FT.

SSD = 1262.04 FT.

E= -0.11 FT.

G2 = +0.67%

G1 = +1.56%

L = 100.00 FT.

SUPERELEVATION

LT SHOULDER -5.60%

RT LANE & RT SHOULDER 5.60%

e = 5.60%

STA. 316+15.171

e = -5.60%

STA. 315+82.028

SUPERELEVATION

LT SHOULDER -4.00%

RT LANE & RT SHOULDER 4.00%

e = 4.00%

STA. 315+82.028

SUPER ELEVATION

LT SHOULDER -5.60%

RT LANE & RT SHOULDER 5.60%

e = 5.60%

STA. 316+15.171

R1427.16 Left

R713.58 Left

ELEVA 1340.56

PV 314 + 64.94

ELEVA 1342.04

LOW 314 + 74.77

ELEVA 1343.36

PV T 316 + 44.94

ELEVA 1345.70

PV C 317 + 95.38

ELEVA 1346.48

PV I 318 + 45.38

+1.5 6

%
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME = USER =
DATE / TIME =

ALTERED BY:
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CONTRACT NUMBER
DRAWING NO.
SHEET NO.
REGION:

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

5758.79

PROFILE

05
CATTARAUGUS

318+50
319+00
320+00
321+00
322+00
323+00
324+00

ELE VA T ION

STATION

1346.5
1346.9
1347.2
1347.5
1347.9
1348.2
1348.6
1348.9
1349.2
1349.4
1349.5
1349.77
1348.28
1348.58
1348.89
1349.19
1349.50
1349.80
1350.11
1350.41
1350.67
1350.65
1350.32

SUPERELEVATION

LT SHOULDER -5.60%
RT LANE & RT SHOULDER 5.60%
e = 5.60%
e = -5.60%

STA. 321+50.283

e = 3.84%
STA. 321+86.740

e = 2.00%
STA. 322+24.854

LT SHOULDER -2.00%
e = -2.00%
STA. 322+24.854

e = 0.00%
STA. 322+66.282

e = 0.00%
STA. 322+66.283

RT SHOULDER -2.00%
e = -2.00%
STA. 323+07.711

e = -3.84%

STA. 323+45.825

R713.58Left

A SP HA LT  E ND S

G R AV EL  B E G IN S
OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:
FILE NAME =
USE =
DATE / TIME =

ALTERED BY:

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TO ALTER ANY PART OF THIS DOCUMENT. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR
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ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

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C510207

DAN IL T A T A R E V I C H
MOHAMMAD HAQUE
SCOTT MCKAY

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

PRO-45

1335 1340 1345 1350 1355 1360 1365 1370 1375

340+50 341+00 342+00 343+00 344+00 345+00 346+00

1349.3 1349.1 1348.8 1348.5 1348.2 1347.9 1347.7 1347.5 1347.6 1347.9 1348.0 1349.76 1349.46 1349.16 1348.92 1348.80 1348.78 1348.88 1349.02 1349.15

ELEVATION STATION

340+50 341+00 342+00 343+00 344+00 345+00 346+00

1349.3 1349.1 1348.8 1348.5 1348.2 1347.9 1347.7 1347.5 1347.6 1347.9 1348.0 1349.76 1349.46 1349.16 1348.92 1348.80 1348.78 1348.88 1349.02 1349.15

ELE VA T I ON

SUPERELEVATION

ELE V 1349.19  P 1342 + 94 .89

ELE V 1348.59  P 1343 + 94 .89

ELE V 1348.78  L O W 1344 + 31 .89

ELE V 1348.86  P 1344 + 94 .89

ELE V 1350 .32  P 1341 + 07 .56

ELE V 1349 .19  P 1342 + 94 .89

ELE V 1348 .59  P 1343 + 94 .89

SSD = 846.33 FT.  E= -0.46 FT.  G2 = -0.60%  G1 = +0.89%  L = 245.00 FT.

SSD = 846.33 FT.  E= 0.22 FT.  G2 = +0.28%  G1 = -0.60%  L = 200.00 FT.
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ALTERED BY:

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CONTRACT NUMBER

DRAWING NO.

SHEET NO.
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

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AS-BUILT REVISIONS

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CONTRACT NUMBER

DRAWING NO.

SHEET NO.

REGION:

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA
### Description of Alterations

**As-Built Revisions**

- **Old Route 17, Bunker Hill Rd to Breeds Run Road**
- **Old Route 17 (Bin 6012230) over Allegheny River**
- **Allegheny Seneca Nation Indian Reservation**
- **Town of Cold Spring, Red House and Salamanca**

#### Dimensions

All dimensions in feet unless otherwise noted.

### Profile

<table>
<thead>
<tr>
<th>Station</th>
<th>Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1335.00</td>
<td></td>
</tr>
<tr>
<td>1340.00</td>
<td></td>
</tr>
<tr>
<td>...</td>
<td></td>
</tr>
<tr>
<td>1370.00</td>
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</table>

### Super-elevation

<table>
<thead>
<tr>
<th>Station</th>
<th>Super-elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1352.40</td>
<td>+0.39%</td>
</tr>
<tr>
<td>1352.60</td>
<td></td>
</tr>
<tr>
<td>...</td>
<td></td>
</tr>
<tr>
<td>1354.76</td>
<td></td>
</tr>
</tbody>
</table>

---

**Description of Alterations:**

Alterations shall be made by licensed professionals (engineers, architects, landscape architects, or land surveyors) and shall include the notation "ALTERED BY" followed by their signature, the date of such alteration, and a specific description of the alteration.
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:
AFFIX SEAL:

FILE NAME =
USE =
DATE/TIME =

ALTERED BY:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED
ON:
AFFIX SEAL:
FILE NAME =
USE =
DATE / TIME =
ALTERED BY:
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OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (_BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

5758.79

PROFILE

STATION

SUPERELEVATION

SSD = 1137.87 FT.
E = -0.17 FT.
G2 = -0.62%
G1 = +0.39%
L = 138.00 FT.
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USE =

DATE / TIME =

ALTERED BY:

SHEET:

SUPERELEVATION:

ELEVATION:

STATION:

PROFILE:

-0.62%

+0.25%

G2 = +0.25%

G1 = -0.62%

L = 220.00 FT.
**DESCRIPTION OF ALTERATIONS:**

**AS-BUILT REVISIONS**

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

**ON:**

**AFFIX SEAL:**

**ALTERED BY:**

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MINIMUM FREEBOARD 5 FT.

DATUM EL. 1315.00

ALLEGHENY RIVER
EL. 1342.95
EL. 1342.05
EL. 1341.30
EL. 1340.00
EL. 1342.2
FINISHED GRADE
PROPOSED

BASELINE
GROUND SURFACE
APPROX. EXISTING
EL. 1323.5
EL. 1325.8

FLOOD UNDER FREE FLOW CONDITIONS. MINIMUM FREEBOARD IS BASED ON DESIGN HYDRAULIC DATA

DRAINAGE AREA
RECURRENCE INTERVAL (YEARS)
PEAK DISCHARGE (FT.)
POINT OF MAX. BACKWATER
HIGH WATER ELEVATION AT
EXISTING
PROPOSED
FLOOD
DESIGN
100
50
AVG. VELOCITY THRU STRUCT. @ DESIGN FLOOD 8.9 FT./SEC.
AVG. VELOCITY THRU STRUCT. @ 36 YEAR EVENT 4.0 FT./SEC.

CAUSEWAY PHASE II
STN. C 4+00

CULVERTS
BRIDGES

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER
ALLEGHENY SENECA NATION INDIAN RESERVATION
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

COUNTY:
REGION:
SHEET NO.
DRAWING NO.
CONTRACT NUMBER
UTILITY QUALITY LEVEL
DRAWING NO.
PRO-04C
UTILITY QUALITY LEVEL D
C510207

5758.79

DESCRIPTION OF ALTERATIONS:
AS-BUILT REVISIONS

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JENNIFER CONRAD
SCOTT MCKAY
MOHAMMAD HAQUE

DAVID TATARIC
MICHAEL FORCucci

FILE NAME = 575879_ ACP _ PRO-04C

DATE / TIME = 2022-01-15 13:39

UTILITY QUALITY LEVEL D
GEO-05

BRIDGES

CULVERTS

AVA
DESCRIPTION OF ALTERATIONS:

AS-BUILT REVISIONS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ON:

AFFIX SEAL:

FILE NAME =

USER =

DATE/TIME =

ALTERED BY:

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CONTRACT NUMBER

DRAWING NO.

SHEET NO.

REGION:

PROPOSED SURFACE

PROPOSED SURFACE

OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD

OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER

ALLEGHENY SENECA NATION INDIAN RESERVATION

TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA

5758.79

TRAILWAY PROFILE

05

CATTARAUGUS

ITEM 304.15 - 12"

6'-0"

2.0%

HCL

WALKING TRAIL A AT BRIDGE DETAIL

NOT TO SCALE

ITEM 304.15 - 12"

6'-0"

2.0%

HCL

WALKING TRAILS B & C AT BRIDGE DETAIL

NOT TO SCALE

ITEM 203.03

ITEM 203.03

ITEM 610.1402

ITEM 610.1402

1 ON 3 OR FLATTER (A.O.B.E.)

1 ON 3 OR FLATTER (A.O.B.E.)

1335

1340

1345

1350

1355

1355

TA 0+00

TA 1+00

TA 0+00

TA 1+00

TA 0+00

TA 1+00

ELEVATION

STATION

PROPOSED SURFACE

ELEVA TION

STATION

TRAIL A

TA 0+00 TO TA 0+96

TRAIL B

TB 0+00 TO TA 0+88

TRAIL C

TC 0+00 TO TC 0+94

1 ON 3 OR FLATTER (A.O.B.E.)

1 ON 3 OR FLATTER (A.O.B.E.)

1335

1340

1345

1350

1355

1355

TA 0+00

TA 1+00

TA 0+00

TA 1+00

TA 0+00

TA 1+00

ELEVATION

STATION

PROPOSED SURFACE

ELEVA TION

STATION

TRAIL A

TA 0+00 TO TA 0+96

TRAIL B

TB 0+00 TO TA 0+88

TRAIL C

TC 0+00 TO TC 0+94

1 ON 3 OR FLATTER (A.O.B.E.)

1 ON 3 OR FLATTER (A.O.B.E.)

1335

1340

1345

1350

1355

1355

TA 0+00

TA 1+00

TA 0+00

TA 1+00

TA 0+00

TA 1+00

ELEVATION

STATION

PROPOSED SURFACE

ELEVA TION

STATION

TRAIL A

TA 0+00 TO TA 0+96

TRAIL B

TB 0+00 TO TA 0+88

TRAIL C

TC 0+00 TO TC 0+94

1 ON 3 OR FLATTER (A.O.B.E.)

1 ON 3 OR FLATTER (A.O.B.E.)

1335

1340

1345

1350

1355

1355

TA 0+00

TA 1+00

TA 0+00

TA 1+00

TA 0+00

TA 1+00

ELEVATION

STATION

PROPOSED SURFACE

ELEVA TION

STATION

TRAIL A

TA 0+00 TO TA 0+96

TRAIL B

TB 0+00 TO TA 0+88

TRAIL C

TC 0+00 TO TC 0+94

1 ON 3 OR FLATTER (A.O.B.E.)

1 ON 3 OR FLATTER (A.O.B.E.)

1335

1340

1345

1350

1355

1355

TA 0+00

TA 1+00

TA 0+00

TA 1+00

TA 0+00

TA 1+00

ELEVATION

STATION

PROPOSED SURFACE

ELEVA TION

STATION

TRAIL A

TA 0+00 TO TA 0+96

TRAIL B

TB 0+00 TO TA 0+88

TRAIL C

TC 0+00 TO TC 0+94

1 ON 3 OR FLATTER (A.O.B.E.)

1 ON 3 OR FLATTER (A.O.B.E.)

1335

1340

1345

1350

1355

1355

TA 0+00

TA 1+00

TA 0+00

TA 1+00

TA 0+00

TA 1+00

ELEVATION

STATION

PROPOSED SURFACE

ELEVA TION

STATION

TRAIL A

TA 0+00 TO TA 0+96

TRAIL B

TB 0+00 TO TA 0+88

TRAIL C

TC 0+00 TO TC 0+94

1 ON 3 OR FLATTER (A.O.B.E.)

1 ON 3 OR FLATTER (A.O.B.E.)

1335

1340

1345

1350

1355

1355

TA 0+00

TA 1+00

TA 0+00

TA 1+00

TA 0+00

TA 1+00

ELEVATION

STATION

PROPOSED SURFACE

ELEVA TION

STATION

TRAIL A

TA 0+00 TO TA 0+96

TRAIL B

TB 0+00 TO TA 0+88

TRAIL C

TC 0+00 TO TC 0+94

1 ON 3 OR FLATTER (A.O.B.E.)

1 ON 3 OR FLATTER (A.O.B.E.)

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TA 0+00

TA 1+00

TA 0+00

TA 1+00

TA 0+00

TA 1+00

ELEVATION

STATION

PROPOSED SURFACE

ELEVA TION

STATION

TRAIL A

TA 0+00 TO TA 0+96

TRAIL B

TB 0+00 TO TA 0+88

TRAIL C

TC 0+00 TO TC 0+94

1 ON 3 OR FLATTER (A.O.B.E.)

1 ON 3 OR FLATTER (A.O.B.E.)

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TA 1+00

ELEVATION
GABION WALL JUSTIFICATION

The existing concrete pavement was constructed in the 1930’s and is in extremely poor condition. The roadway has not been maintained in over 40 years. The roadway from STA 179+20 +/- to STA 215+60 is immediately adjacent of the waterway of the reservoir and over the years the wave action and flow of the Allegany Reservoir has undermined the roadway (pictures below). It is necessary to install a 2,656-foot gabion wall along the USGS mapped portion of the Allegany River to protect the proposed roadway from undermining and erosion from the reservoir (total gabion wall is 3600-ft). NYSDOT is requesting that the permit fees associated with this activity be waived as the work is essential to complete the project and ensure the roadway remains in a safe and stable condition in the future.
WORK IN THE WATERWAY EXTENSION JUSTIFICATION

As per the proposed construction schedule (see attached) we anticipate that the contractor will need to work within the waterway by April 1 in order to construct the causeway, complete the demolition and construct the first ½ the bridge and remove the phase 1 causeway in the fall by November 1. The same schedule will need to be followed the 2nd construction season. The contractor will coordinate with SNI prior to construction on what, if any, waivers are needed for extending the work within water window.
Project Schedule

- **Design Approval:** Anticipated September 2022
- **Let Date:** December 2022
- **Construction:** Sequence of Construction (see below)
- **Anticipated Construction Completion:** December 2024

Description of Proposed Work

**Road Work**

The proposed roadway work will primarily consist of reshaping the roadside drainage ditches to properly drain the gravel road construction on top of the existing concrete pavement. This work will begin at intersection of Old Route 17 and Bunker Hill Road to the west approach of the Red House Bridge (approximately 3.8 miles) then continue from the east approach of the bridge approximately 2.1 miles east toward the intersection of Breed Run Road. After the ditch and drainage work is complete the gravel road will be constructed using two 6" lifts of subbase with an intermediate layer of Tensar TriAx Geogrid. This roadbase will be topped with a 3” well graded gravel intended for gravel roadway construction. The gravel roadway will be treated with calcium chloride to keep dust under control and to provide a hard compacted surface. Some small culvert replacements, installation of erosion control measures, and guiderail work will also be part of the roadway work.

**Bridge Work**

The proposed work at BIN 6012230 consists of a complete bridge replacement. A causeway will be necessary to access the bridge from both sides of the riverbank and provide a working platform for construction activities. Barge construction was considered but, is not feasible due to the unpredictability of the water levels and low water levels would strand the barge. Turbidity curtains and cofferdams will be necessary for the removal of the three existing piers, construction of the four proposed piers, and installation of the heavy stone fill at the beginning and ending abutments.

The causeway and bridge construction will be completed in two phases, so the causeway will not block the entire river channel. The causeways will be constructed first, by placing heavy stone fill to provide a porous base. Then, geotextile material will be placed over the heavy stone fill and a layer of subbase will be compacted on top the stone fill base to provide a stable passable surface to work from. No excavation will be necessary to place the stone for construction of the causeways.

Since the proposed bridge alignment is essentially in the same location as the existing bridge, the two phased demolition of the existing bridge and construction of the new bridge will be done utilizing road closure traffic control. The preliminary plans for the bridge replacement and phased causeways can be found in Appendix 1.

**Phase 1**

The first causeway will be built in the spring of 2023, and it will extend approximately 250 feet into the river from the west shoreline, north of the bridge. This causeway is anticipated to be constructed with three, five-foot diameter pipes to help maintain continuous flow of the river throughout construction. The causeway will be used to remove approximately half of the existing superstructure, the existing pier 1, and then construct proposed pier 1, pier 2, and the beginning abutment. The causeway will also be used as a platform to set steel between the newly constructed abutment and piers. The first causeway will be removed in the fall of 2023.
Phase 2

In the spring of 2024, the second causeway will be built from the east shoreline and extended approximately 250 feet into the river. This causeway is anticipated to be constructed with three, five-foot diameter pipes to help maintain continuous flow of the river throughout construction. The causeway will be used to remove approximately half of the existing superstructure, the existing pier 2 and pier 3 and then to construct pier 3, pier 4, and the ending abutment. The causeway will remain in place after the demolition of the existing piers and the construction of the new piers, so it can be used as a platform to set the steel on the newly constructed abutment and piers. The causeway will also be used as access to pour the continuous concrete deck on the bridge. The second causeway will be removed in the fall of 2024.

There will be no in-water work prior to the completion of the mussel salvage and relocation survey. It is anticipated that the mussel salvage and relocation survey will take place in August/September 2022 in anticipation of the phase 1 causeway construction beginning in the spring of 2023 (to be removed in the fall of 2023). The Phase 2 causeway will be constructed in the spring of 2024 and remain until the fall of 2024. SNI stream restriction dates apply, with work within water limited to June 1 through August 31; however due to the expected length of time needed for the proposed work, a waiver is anticipated to be required, as discussed in the application for the SNI Construction within Waterways Permit. In-water work is anticipated to be completed by the end of December 2024.

The following is the anticipated sequence of construction activities involving in-water work:

2023 Construction Season (Spring 2023 to Fall 2023)

1. Take pre-construction photographs of riverbanks and any floodplains.
2. Installation of temporary sediment control filter logs, silt fencing and other erosion and sediment controls as needed.
3. Clearing and grubbing of the area north of both the east and west bridge abutments.
4. Installation of a temporary construction roadway on west bank to the north of the bridge. The temporary roadway will be constructed using 6”-12” of subbase over geotextile fabric.
5. Install the turbidity curtains and phase 1 causeway. Place the pipes and stone fill for the causeway. Place geotextile fabric over the heavy stone fill and place a minimum of 6” of subbase over the causeway (the subbase may be deeper in some locations due to the unevenness of the heavy stone fill).
6. Demolition of the west half of the superstructure.
7. Demolition of the beginning (west) abutment according to plan.
8. Installation of turbidity curtain and cofferdam around existing pier 1. The cofferdam is anticipated to be in place until pier 1 is demolished according to plan.
9. Installation of turbidity curtains and cofferdams around beginning (west) abutment.
10. Construct the beginning (west) abutment.
11. Installation of turbidity curtains and cofferdams in the new pier 1 & 2 locations.
12. Install the drilled shafts for the piers while cofferdams are in place. Remove the turbidity curtains and cofferdams sequentially as the drilled shafts are installed.
13. After abutments are complete, place heavy stone fill according to plan around the beginning abutment.
14. Construct the first half (west side) of the bridge.
15. Remove the temporary phase 1 causeway and pipes.
16. Remove turbidity curtain after removal of phase 1 causeway.

2024 Construction Season (Spring 2024 to Fall 2024)

17. Install a temporary construction roadway on east bank to the north of the bridge. The temporary roadway will be constructed using 6”-12” of subbase over geotextile fabric.
18. Install the turbidity curtains and phase 2 causeway. Place the pipes and stone fill for the causeway. Place geotextile fabric over the heavy stone fill and place a minimum of 6” of subbase over the causeway (the subbase may be deeper in some locations due to the unevenness of the heavy stone fill).
19. Demolition of the east half of the superstructure.
20. Demolition of the ending (east) abutment according to plan.
21. Installation of turbidity curtains and cofferdams sequentially around the existing pier 2 and 3. The cofferdams are anticipated to be in place until piers 2 & 3 are demolished according to plan.
22. Install turbidity curtains and cofferdams around ending (east) abutment.
23. Construct the ending (east) abutment.
24. Install turbidity curtains and cofferdams in the new pier 3 & 4 locations.
25. Install the drilled shafts for the piers while cofferdams are in place. Remove the turbidity curtains and cofferdams sequentially as the drilled shafts are installed.
26. After ending abutment is complete, place heavy stone fill according to plan around the end abutment.
27. Construct the second half (east side) of the bridge.
28. Remove the temporary phase 2 causeway and pipes.
29. Remove turbidity curtain after removal of phase 2 causeway.
30. Restore disturbed areas.
31. Remove remaining temporary sediment control measures.